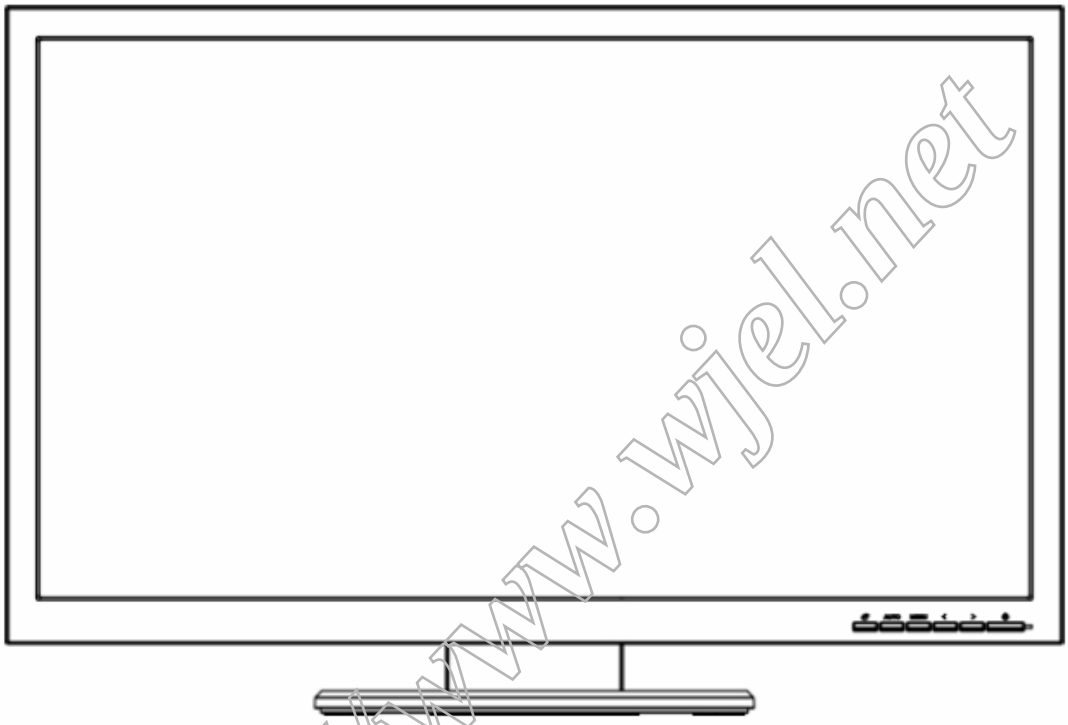

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Acer B203H

Service Guide

Service Guide Version and Revision

Version	Release Date	Revision History	TPV model
A00	Sep.-22-2008	Initial Release	TARSNDD8WDAYDN
			TARSNDD8WDAYHN

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Conventions

The following conventions are used in this manual:

Screen messages	Denotes actual messages that appear on screen.
Note	Gives bits and pieces of additional information related to the current topic.
Warning	Alerts you to any damage that might result from doing or not doing specific actions.
Caution	Gives precautionary measures to avoid possible hardware or software problems.
Important	Remind you to do specific actions relevant to the accomplishment of procedures.

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Preface

Before using this information and the product it supports, please read the following general information.

1. This Service Guide provides you with all technical information relating to the BASIC CONFIGURATION decided for Acer's "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office may have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These LOCALIZED FEATURES will NOT be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.

2. Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

Warning: (For FCC Certified Models)

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

Notice:

1. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2. Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.
3. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibility of the user to correct such interference.

   As ENERGY STAR® Partner our company has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Warning:

To prevent fire or shock hazard, do not expose the monitor to rain or moisture. Dangerous high voltages are present inside the monitor. Do not open the cabinet. Refer servicing to qualified personnel only.

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Precautions

- Do not use the monitor near water, e.g. near a bathtub, washbowl, kitchen sink, laundry tub, swimming pool or in a wet basement.
- Do not place the monitor on an unstable trolley, stand, or table. If the monitor falls, it can injure a person and cause serious damage to the appliance. Use only a trolley or stand recommended by the manufacturer or sold with the monitor. If you mount the monitor on a wall or shelf, uses a mounting kit approved by the manufacturer and follow the kit instructions.
- Slots and openings in the back and bottom of the cabinet are provided for ventilation. To ensure reliable operation of the monitor and to protect it from overheating, be sure these openings are not blocked or covered. Do not place the monitor on a bed, sofa, rug, or similar surface. Do not place the monitor near or over a radiator or heat register. Do not place the monitor in a bookcase or cabinet unless proper ventilation is provided.
- The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- The monitor is equipped with a three-pronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. Do not defeat the safety purpose of the grounded plug.
- Unplug the unit during a lightning storm or when it will not be used for long periods of time. This will protect the monitor from damage due to power surges.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- Never push any object into the slot on the monitor cabinet. It could short circuit parts causing a fire or electric shock. Never spill liquids on the monitor.
- Do not attempt to service the monitor yourself; opening or removing covers can expose you to dangerous voltages and other hazards. Please refer all servicing to qualified service personnel
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100 - 240V AC, Min. 5A.
- The wall socket shall be installed near the equipment and shall be easily accessible.

Special Notes On LCD Monitors

The following symptoms are normal with LCD monitor and do not indicate a problem.

Notes

- Due to the nature of the fluorescent light, the screen may flicker during initial use. Turn off the Power Switch and then turn it on again to make sure the flicker disappears.
- You may find slightly uneven brightness on the screen depending on the desktop pattern you use.
- The LCD screen has effective pixels of 99.99% or more. It may include blemishes of 0.01% or less such as a missing pixel or a pixel lit all of the time.
- Due to the nature of the LCD screen, an afterimage of the previous screen may remain after switching the image, when the same image is displayed for hours. In this case, the screen is recovered slowly by changing the image or turning off the Power Switch for hours.

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Table Of Contents

Chapter 1	**Monitor Features**	.....	**7**
	Introduction	.....	7
	Electrical Requirements	.....	8
	LCD Monitor General Specification	.....	9
	LCD Panel Specification	.....	10
	Support Timing	.....	13
	Monitor Block Diagram	.....	14
	Main Board Diagram	.....	15
	Software Flow chart	.....	16
	Main Board Layout	.....	18
	Installation	.....	19
	Screen Position Adjustment	.....	20
Chapter 2	**Operating Instructions**	.....	**22**
	External Controls	.....	22
	Front Panel Controls	.....	22
	eColor Management (OSD)	.....	23
	How to Adjust a Setting	.....	24
	How To Optimize The DOS-Mode	.....	27
Chapter 3	**Machine Disassembly**	.....	**28**
Chapter 4	**Troubleshooting**	.....	**31**
Chapter 5	**Connector Information**	.....	**37**
Chapter 6	**FRU (Field Replacement Unit) List**	.....	**38**
	Exploded Diagram	.....	38
Chapter 7	**Schematic Diagram**	.....	**42**

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Monitor Features

Chapter 1

Introduction

Scope

This specification defines the requirements for the 20.0” MICROPROCESSOR based Multi-mode supported high resolution color LCD monitor. This monitor can be directly connected to general 15-pin D-sub VGA connector, also supports VESA DPMS power management and plug & play function.

Description

The LCD monitor is designed with the latest LCD technology to provide a performance oriented product with no radiation. This will alleviate the growing health concerns. It is also a space saving design, allowing more desktop space, and comparing to the traditional CRT monitor, it consumes less power and gets less weight in addition MTBF target is 50k hours or more.

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Chart of B203H

Panel	LTM200KT01 SEC KR
Signal Interface	D-Sub 15pin;DVI 24pin
Sync Type	Separate / Compatible
Color Temp User Adjust	Support
DDC	DDC2B
Speaker	B203H+AUDIO: Yes
	B203H : No
Headphone Jack	B203H+AUDIO: Yes
	B203H : No
Microphone Jack	No
USB Hub	Not support
Tilt / Swivel	Yes/Yes

Electrical Requirements

Standard Test Conditions

All tests shall be performed under the following conditions, unless otherwise specified.

Ambient light	Dark room (< 1 cd/m^2)
Viewing distance	40 cm for LCD performance, 20 cm for LCD failures
Warm up time	＞30 minutes
Analog Input signal	700 mVss
Control temperature	6500° K
User brightness control	The value under user mode
User contrast control	Set to factory preset value, which allows that the brightest two of 32 linear distributed gray-scales (0～ 700mv) can be distinguished.
Picture position and size	Factory preset value
Viewing angle	90° H and V
AC Supply voltage	220V± 5％, 50±3Hz
Ambient temperature	20+5℃
Humidity	50% ± 10%
Display mode	1600 x 900, 60 Hz, all white
e-color mode	Set to “User” mode

Measurement systems

The units of measure stated in this document are listed below:

1 gamma = 1 nano tesla

1 tesla = 10,000 gauss

cm = in x 2.54

Lb = kg x 2.2

Degrees F = [°C x 1.8] + 32

Degrees C = [°F - 32]/1.8

u' = 4x/(-2x + 12y + 3)

v' = 9y/(-2x + 12y + 3)

x = (27u'/4)/[(9u'/2) - 12v' + 9]

y = (3v')/[(9u'/2) - 12v' + 9]

nits = cd/(m2) = Ft-L x 3.426

lux = foot-candle x 10.76

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LCD Monitor General Specification

LCD Panel	Driving system	TFT Color LCD
	Active Display Area	442.8 (W) × 249.075(H)
	Pixel pitch	0.2768(H) x 0.2768(W)
	Contrast Ratio	1000 : 1
	Response time	5ms
	Luminance of White	300(Typ.) cd/㎡
Input	Separate Sync.	H/V TTL
	H-Frequency	30kHz – 83kHz
	V-Frequency	56-75Hz
Viewing angle	(H)90 (V) 90(Type)	
Display Colors	16.7M	
Display mode	1600 x 900 @60Hz	
EPA ENERGY STAR®	ON Mode	< 48W
	OFF Mode	< 1W
Contrast control	Set to factory preset value, which allows that the brightest two of 32 linear distributed gray-scales (0～ 700mv) can be distinguished.	
Power Source	100 V ~ 240 V, 50 ± 3Hz, 60 ± 3Hz	
Environmental Considerations	Operating Temp: 0° to 40°C Storage Temp: -30° to 65°C Operating Humidity: 0% to 90% Storage Humidity: 0% to 90%	
Peak surge current	< 55A peak at 240 VAC and cold starting	
Power line surge	No advance effects (no loss of information or defect) with a maximum of 1 half-wave missing per second	

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LCD Panel Specification

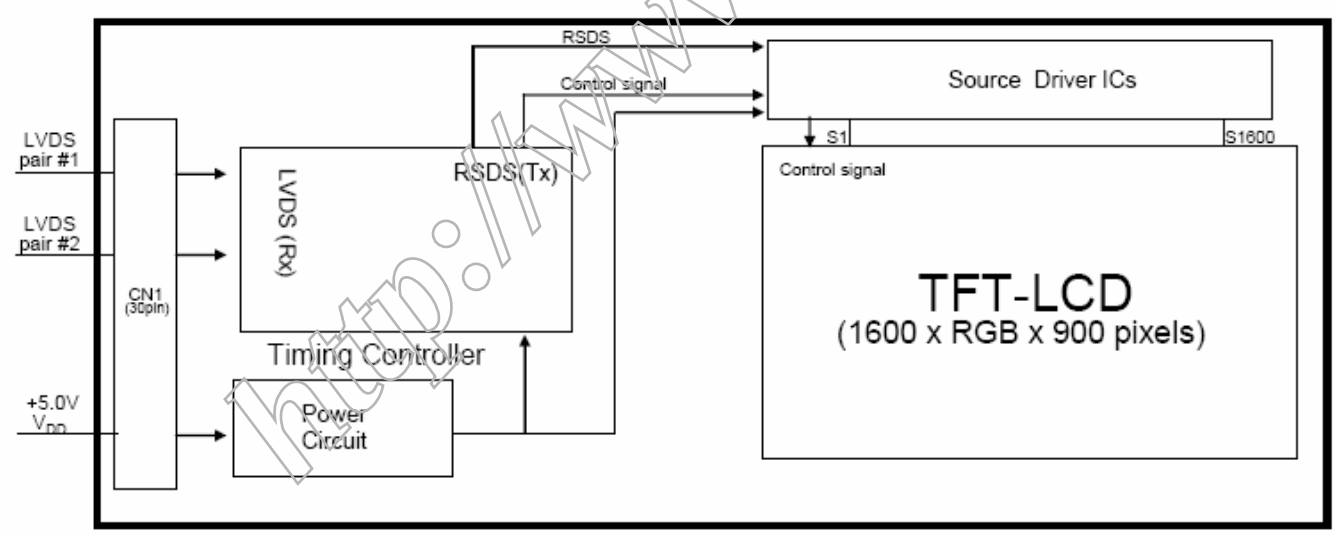
LTM200KT01 is a color active matrix liquid crystal display (LCD) that uses amorphous silicon TFT(Thin Film Transistor) as switching components. This model is composed of a TFT LCD panel, a driver circuit and a back light unit. The resolution of a 20.0" is 1600 x 900 and this model can display up to 16.7 millions colors.

General Specifications

Items	Specification	Unit	Note
Pixel Pitch	0.2768(H) x 0.2768(W)	mm	
Active Display Area	442.8(W) x 249.075(H)	mm	
Surface Treatment	Haze 25%, Hard-coating(3H)		
Display Colors	16.7M (6bit Hi-FRC)	colors	
Number of Pixels	1600 x 900	pixel	
Pixel Arrangement	RGB vertical stripe		
Display Mode	Normally White		
Power Consumption	(28.4) Watt (Typ.)		
Luminance of White	300(Typ.)	cd/㎡	

Block Diagram

TFT LCD Module



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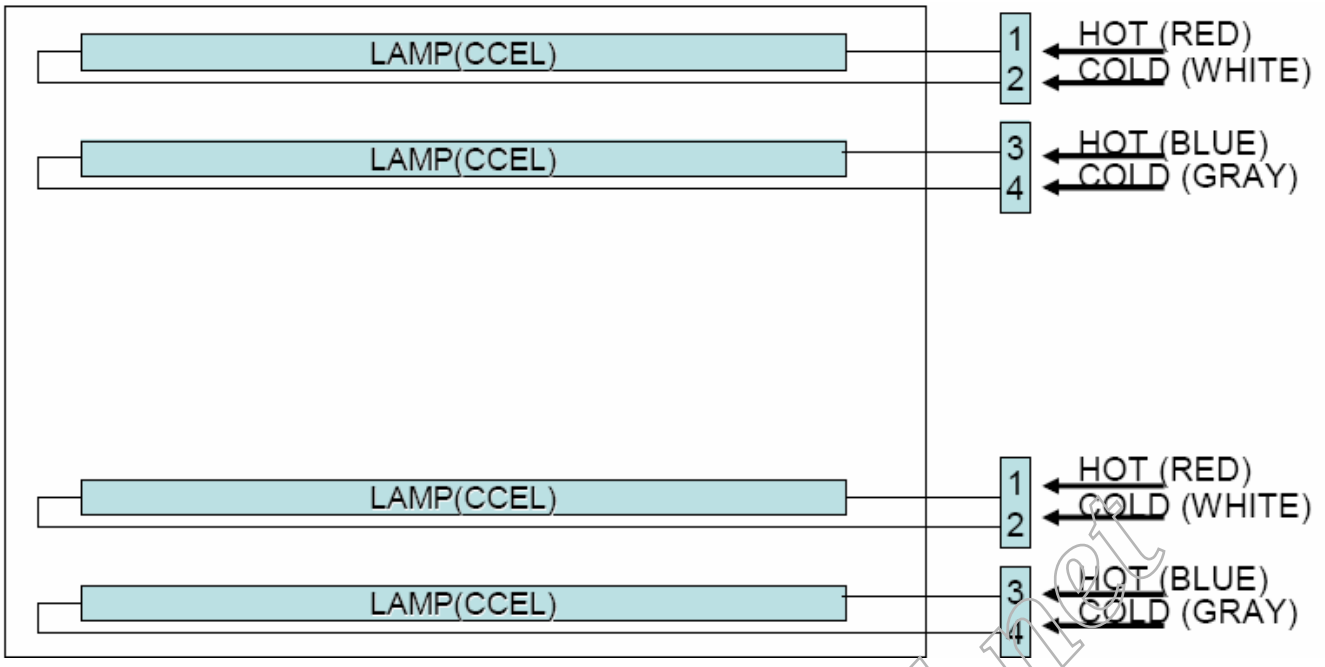
Back light Unit



Electrical Characteristics

Item		Symbol	Min.	Typ.	Max.	Unit	Note
Voltage of Power Supply		V_{DD}	4.5	5.0	5.5	V	(1)
LVDS Input Characteristics	Differential Input Voltage for LVDS Receiver Threshold	High	-	-	+100	mV	(2)
		Low	-100	-	-	mV	
	LVDS skew	t_{SKEW}	-300		300		(3)
	Differential input voltage	$\|V_{ID}\|$	200		600	mV	(4)
	Input voltage range (single-ended)	V_{IN}	0		2.4	V	(4)
	Common mode voltage	V_{CM}	0+ $\|V_{ID}\|/2$	1.2	2.4- $\|V_{ID}\|/2$	V	(4)
Current of Power Supply	(a) Black	I_{DD}	-	(1100)	-	mA	(5),(6)
	(b) White		-	(800)	-	mA	
	(c) Dot		-	(1300)	(1700)	mA	
Vsync Frequency		f_V	50	60	75	Hz	
Hsync Frequency		f_H	46.3	55.9	70.4	kHz	
Main Frequency		f_{DCLK}	48.5	59.4	76.1	MHz	
Rush Current		I_{RUSH}	-	-	(3.0)	A	(7)

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Optical Specifications

Item		Symbol	Condition	Min.	Typ.	Max.	Unit	Note
Contrast Ratio (Center of screen)		C/R	Normal $\theta_{L,R}=0$ $\theta_{U,D}=0$ Viewing Angle	-	1000	-		(3) SR-3
Response Time	On/Off	Tr+Tf		-	5	10	msec msec	(5) RD-850S
Luminance of White (Center of screen)		Y_L		-	300	-	cd/m2	(6) SR-3
Color Chromaticity (CIE 1931)	Red	Rx		-	(0.640)	-		(7),(8) SR-3
		Ry		-	(0.330)	-		
	Green	Gx		-	(0.300)	-		
		Gy		-	(0.600)	-		
	Blue	Bx		-	(0.150)	-		
		By		-	(0.060)	-		
	White	Wx		-	0.313	-		
		Wy		-	0.329	-		
Color Chromaticity (CIE 1976)	Red	Ru'		-	(0.451)	-		
		Rv'		-	(0.523)	-		
	Green	Gu'		-	(0.125)	-		
		Gv'		-	(0.563)	-		
	Blue	Bu'		-	(0.175)	-		
		Bv'		-	(0.158)	-		
	White	Wu'		-	0.198	-		
		Wv'		-	0.468	-		
C.G.L	White	$\Delta u'v'$		-	-	0.02		(9)

Item		Symbol	Condition	Min.	Typ.	Max.	Unit	Note
Color Gamut		-		-	72	-	%	
Color Temperature		-		-	6500	-	K	
Viewing Angle	Hor.	θ_L	CR≥10	70	80	-	Degrees	(8) EZ-Contrast
		θ_R		70	80	-		
	Ver.	θ_U		70	80	-		
		θ_D		70	80	-		
Brightness Uniformity (9 Points)		B_{uni}		-	-	25	%	(4) SR-3

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Support Timing

MODE	RESOLUTION			
1	VESA	640 x 480	60	Hz
2	VESA	640 x 480	72	Hz
3	VESA	640 x 480	75	Hz
4	VESA	800 x 600	56	Hz
5	VESA	800 x 600	60	Hz
6	VESA	800 x 600	72	Hz
7	VESA	800 x 600	75	Hz
8	VESA	1024 x 768	60	Hz
9	VESA	1024 x 768	70	Hz
10	VESA	1024 x 768	75	Hz
11	VESA	1152 x 864	75	Hz
12	VESA	1280x768	60	Hz
13	VESA	1280x768	75	Hz
14	VESA	1280x720	60	Hz
15	VESA	1280x960	60	Hz
16	VESA	1280 x 1024	60	Hz
17	VESA	1280 x 1024	75	Hz
18	VESA	1360x768	60	Hz
19	VESA	1440 x 900	60	Hz
20	VESA	1440 x 900	75	Hz
21	VESA	1600 x 900	60	Hz
22	IBM	720 x 400	70	Hz
23	IBM	640 x 350	70	Hz
24	IBM	1024 x 768	72	Hz
25	MAC	640 x 480	67	Hz
26	MAC	832 x 624	75	Hz
27	MAC	1024 x 768	60	Hz
28	MAC	1024 x 768	75	Hz
29	MAC	1152x870	75	Hz
30		648 x 500	57.67	Hz
31		1280 x 800	60	Hz

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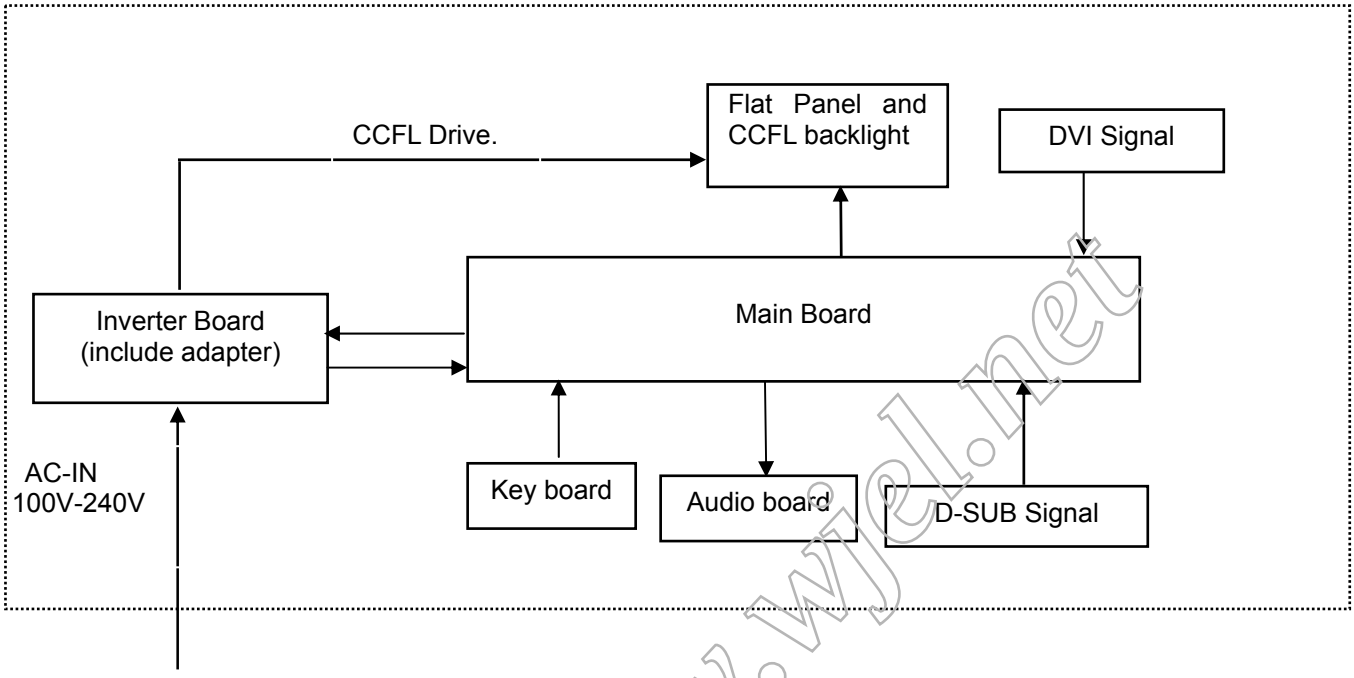
Monitor Block Diagram

The LCD MONITOR will contain a main board, a power board, an audio board and a key board which house the flat panel control logic, brightness control logic and DDC.

The power board will provide AC to DC Inverter voltage to drive the backlight of panel and the main board chips each voltage.

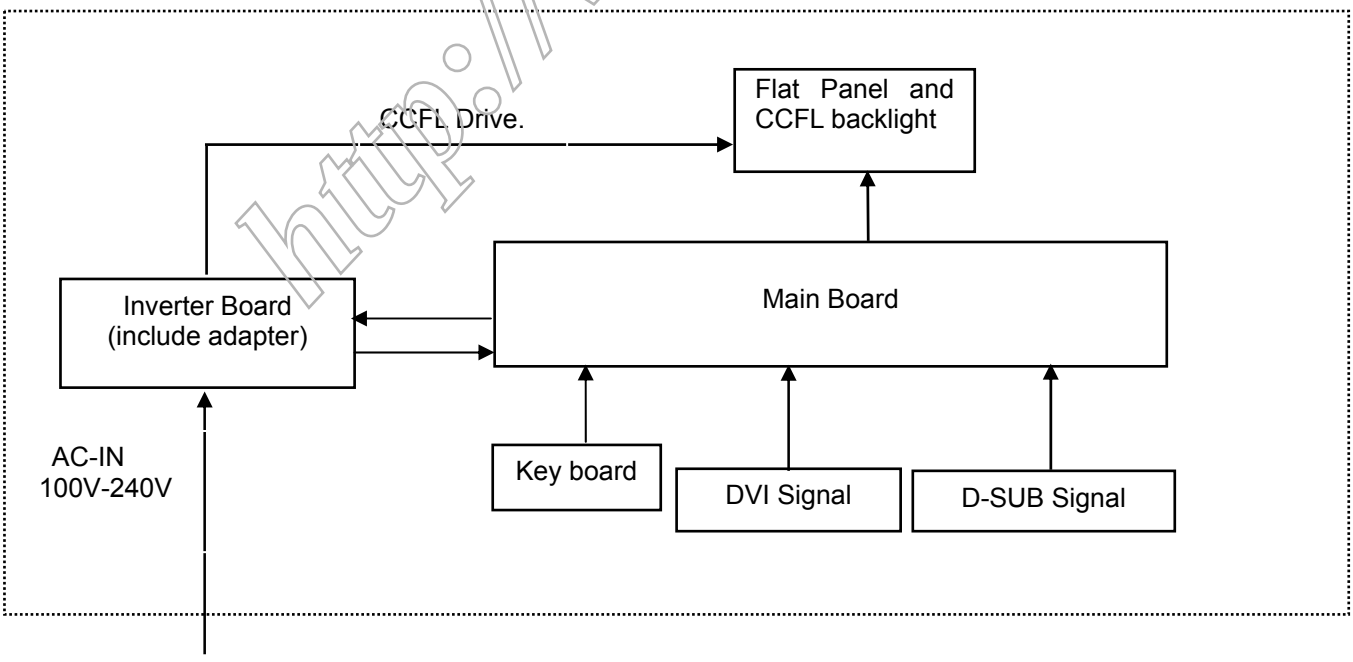
B203H+AUDIO:



The LCD MONITOR will contain a main board, a power board and a key board which house the flat panel control logic, brightness control logic and DDC.

The power board will provide AC to DC Inverter voltage to drive the backlight of panel and the main board chips each voltage.

B203H:



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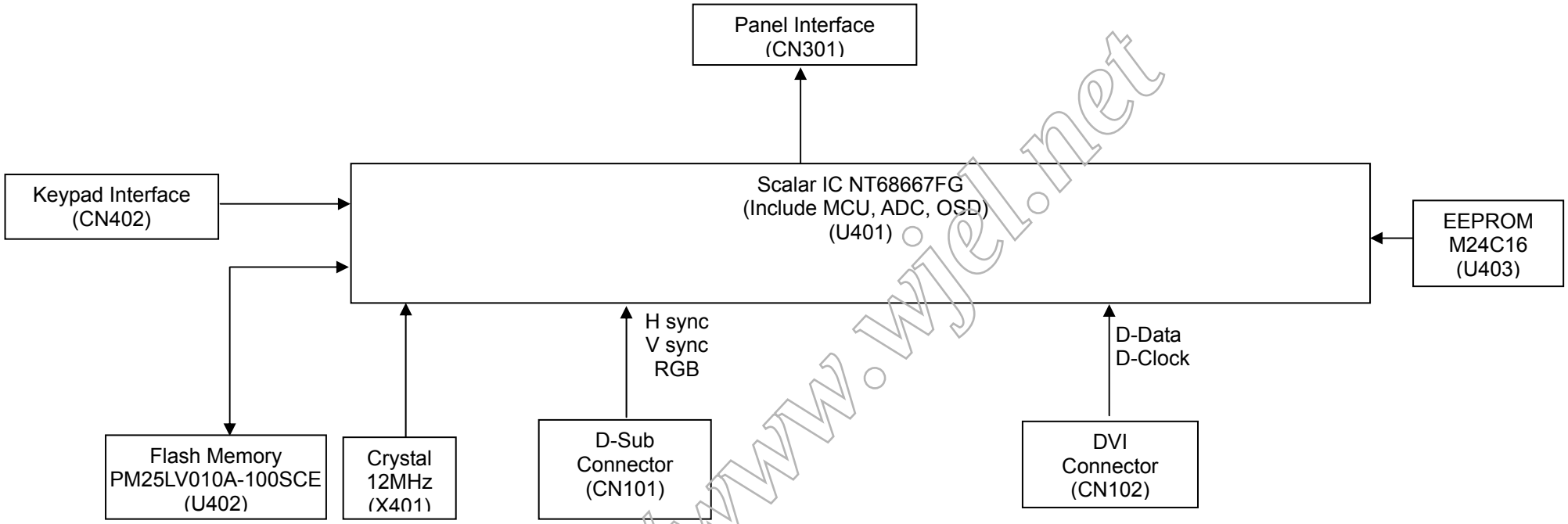
Main Board Diagram



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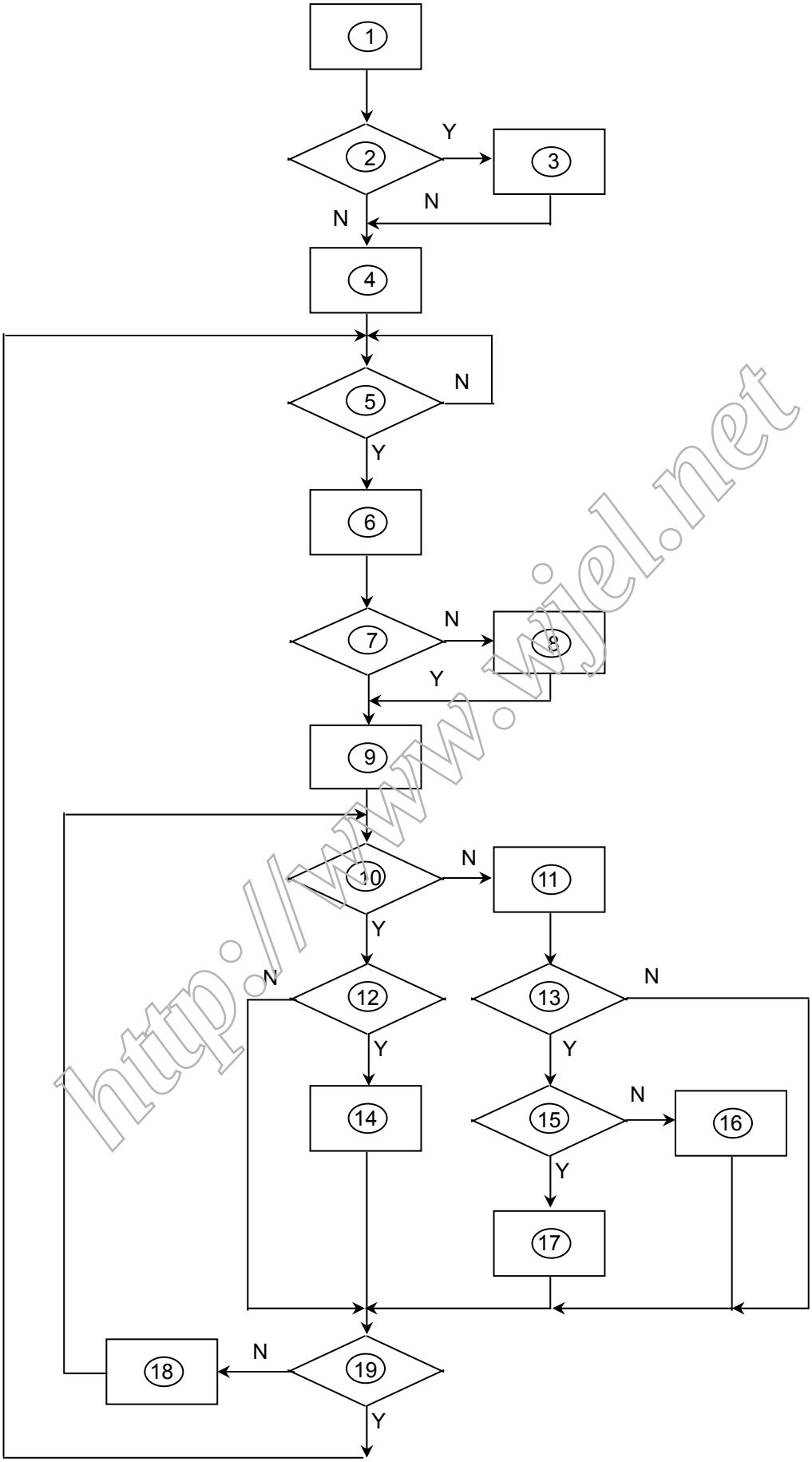
Software Flow Chart



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Remark:

1) MCU initializes.
2) Is the EEPROM blank?
3) Program the EEPROM by default values.
4) Get the PWM value of brightness from EEPROM.
5) Is the power key pressed?
6) Clear all global flags.
7) Are the AUTO and SELECT keys pressed?
8) Enter factory mode.
9) Save the power key status into EEPROM. Turn on the LED and set it to green color. Scalar initializes.
10) In standby mode?
11) Update the lifetime of back light.
12) Check the analog port, are there any signals coming?
13) Does the scalar send out an interrupt request?
14) Wake up the scalar.
15) Are there any signals coming from analog port?
16) Display "No connection Check Signal Cable" message. And go into standby mode after the message disappears.
17) Program the scalar to be able to show the coming mode.
18) Process the OSD display.
19) Read the keyboard. Is the power key pressed?

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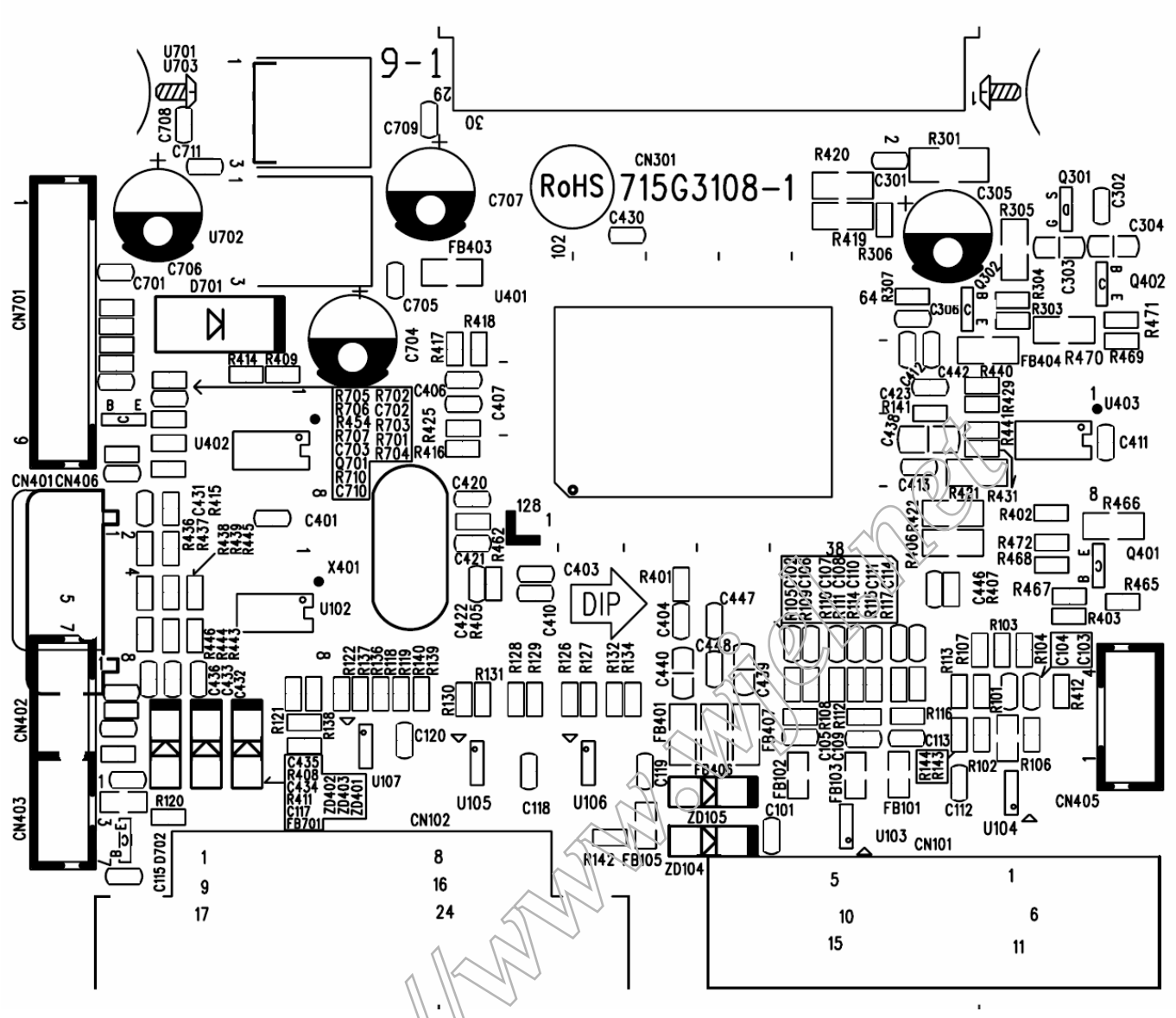
Main Board Layout



Symbol	Description	Symbol	Description
U401	IC NT68667FG QFP 128L	CN603	WAFER EH-4
U703	IC AP1117D33L-13 TO252-3L DIODES	CN701	WAFER 9P RIGHT ANELE PITCH
U103	IC AZC099-04S SOT23-6L	CN301	CONNECTOR
U104	IC AZC099-04S SOT23-6L	X401	CRYSTAL 12MHz HC-49US ARG6-120
U402	IC PM25LV010A-100SCE SOIC-8	CN101	D-SUB 15PIN
U403	M24C16-WMN6TP	CN102	DVI 24PIN CONN F

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Installation

To install the monitor on your host system, please follow the steps below:

Steps

1 Connect the video cable

a Make sure both the monitor and computer are switched off.

b Connect the VGA video cable to the computer.

c Connect the digital cable (only for dual-input models).

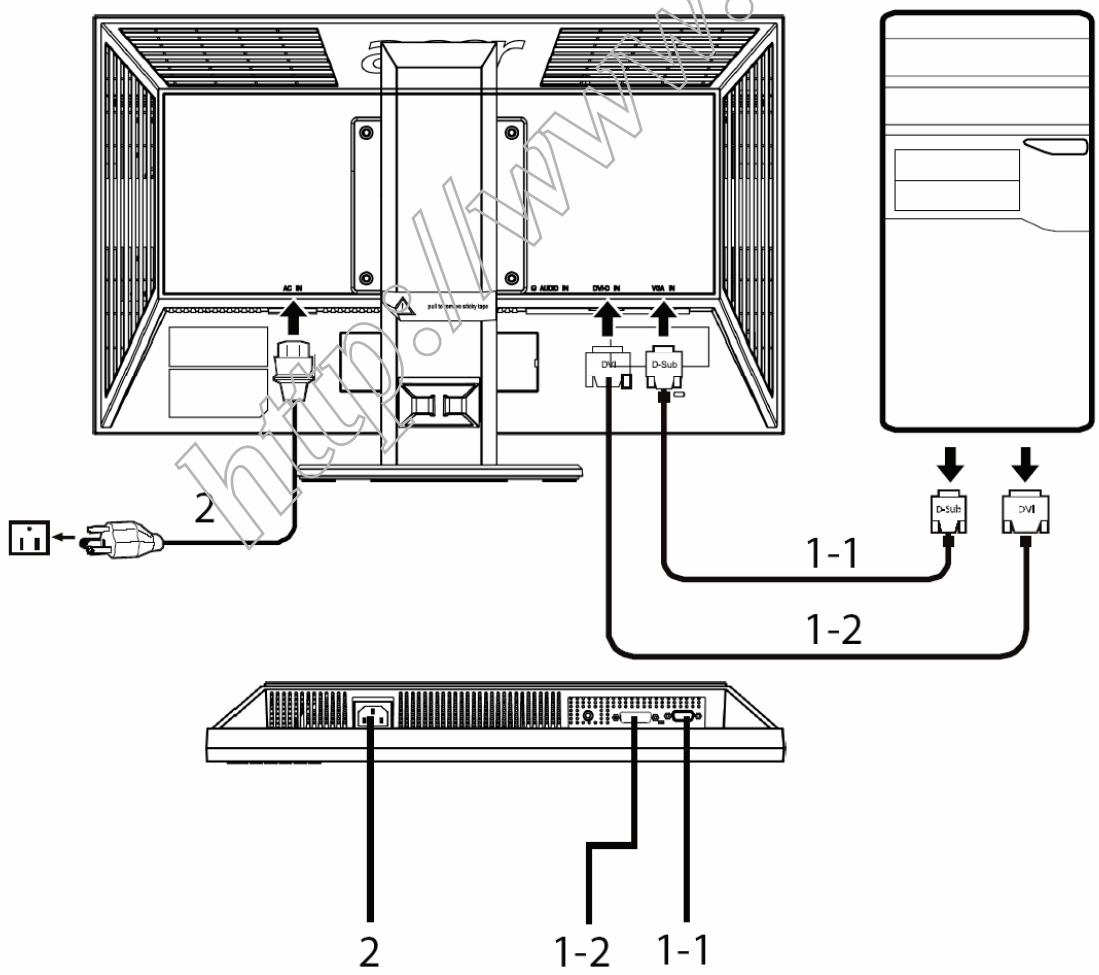
(1) Make sure both the monitor and computer are switched off.

(2) Connect one end of the 24-pin DVI cable to the back of the monitor and the other end to the computer's port.

2 Connect the power cord
Connect the power cord to the monitor, then to a properly grounded AC outlet.

3 Turn on the monitor and computer
Turn on the monitor first, then the computer. This sequence is very important.

4 If the monitor does not function properly, please refer to the troubleshooting section to diagnose the problem.



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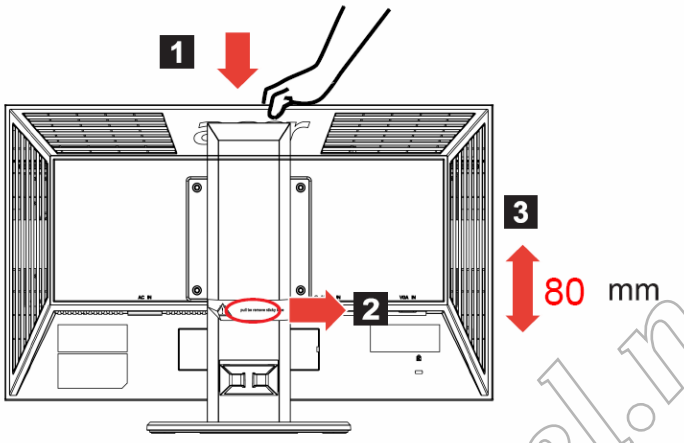
Screen Position Adjustment

In oder to optimize the best viewing position, you can adjust the height/tilt/ swivel/pivot of the monitor.

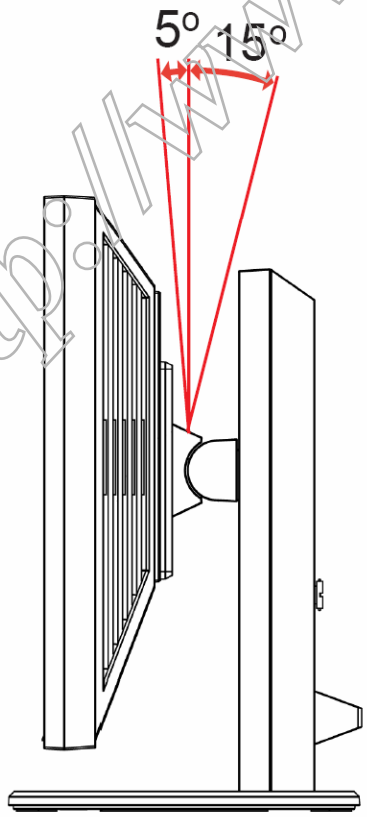
- **Height Adjustment**

After pressing the top of the monitor, push the lock button towards right, then you can adjust the height of the monitor.



- **Tilt**

Please see the illustration below for an example of the tilt range.



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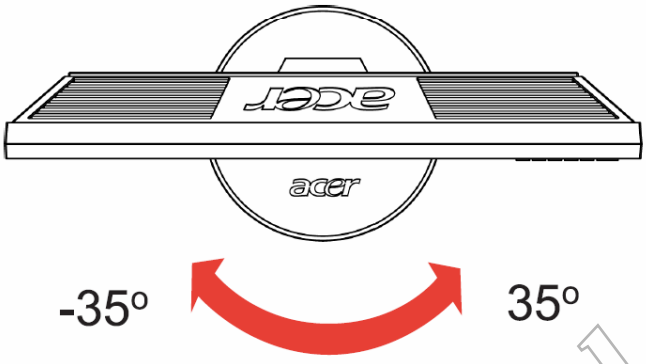
- **Swivel**

With the built-in pedestal, you can swivel the monitor for the most comfortable viewing angle.



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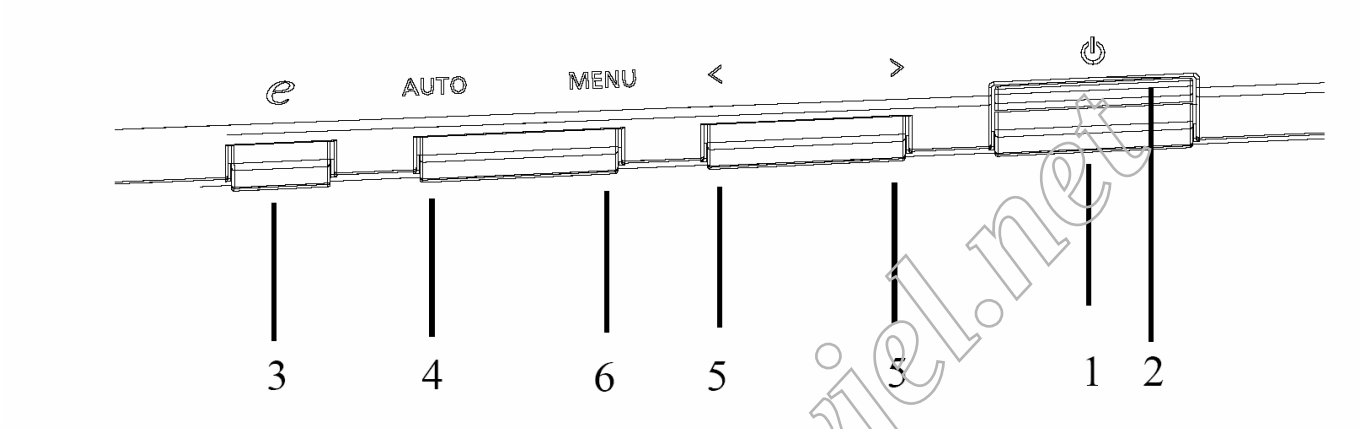
Press the power button to turn the monitor on or off. The other control buttons are located at front panel of the monitor. By changing these settings, the picture can be adjusted to your personal preferences.

- The power cord should be connected.
- Connect the video cable from the monitor to the video card.
- Press the power button to turn on the monitor position. The power indicator will light up.

External Controls



Front panel controls

1. Power Switch:

To turn ON or OFF the power.

2. Power LED:

Lights up to indicate the power is turned ON.

3. Empowering / Exit:

1) When OSD menu is in active status, this button will act as EXIT-KEY(EXIT OSD menu).

2) When OSD menu is in off status, press this button to select scenario mode.

4. Auto Adjust button / Exit:

1) When OSD menu is in active status, this button will act as EXIT-KEY (EXIT OSD menu).

2) When OSD menu is in off status, press this button for 2 seconds to activate the Auto Adjustment function. The Auto Adjustment function is used to set the HPos, VPos, Clock and Focus.

5. < / >

1) Press < or > to select the desired function. Press < or > to change the settings of the current function.

2) Press < or > to adjust the volume up or down (Only for Audio).

6. MENU / ENTER:

Activate OSD menu when OSD is OFF or activate/de-activate adjustment function when OSD is ON.

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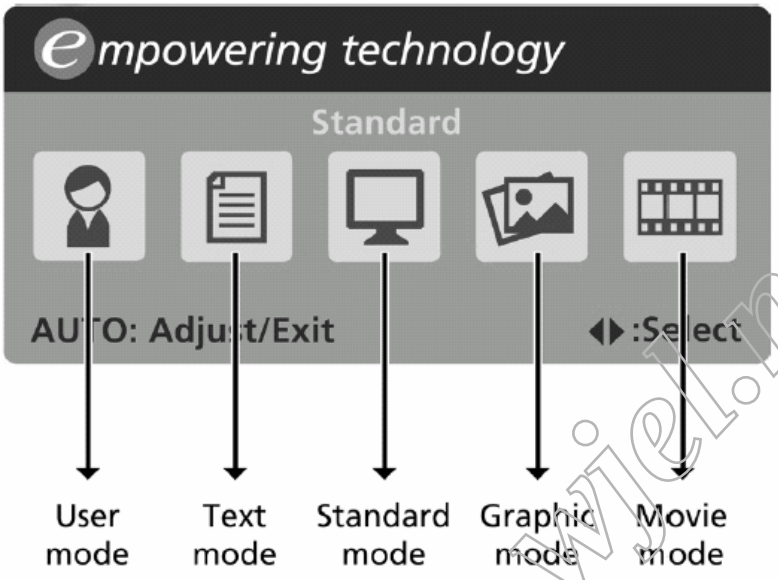
eColor Management (OSD)

- Operation instructions

  1 Press the e Empowering Key to open the Acer eColor Management OSD and access the scenario modes.
  2 Press "<" or ">" to select the mode.
  3 Press the Auto-adjust button to confirm the mode and run Auto Adjust.



- Features and benefits

Main menu icon	Sub menu item	Description
	User mode	User-defined. Settings can be fine-tuned to suit any situation.
	Text mode	Optimal balance of brightness and contrast to prevent eyestrain. The most comfortable way to read onscreen text.
	Standard mode	Default settings. Reflects native display capability.
	Graphic mode	Enhances colors and emphasizes fine detail. Pictures and photographs appear in vibrant colors with sharp detail.
	Movie mode	Displays scenes in clearest detail. Presents great visuals, even in unsuitably-lit environments.

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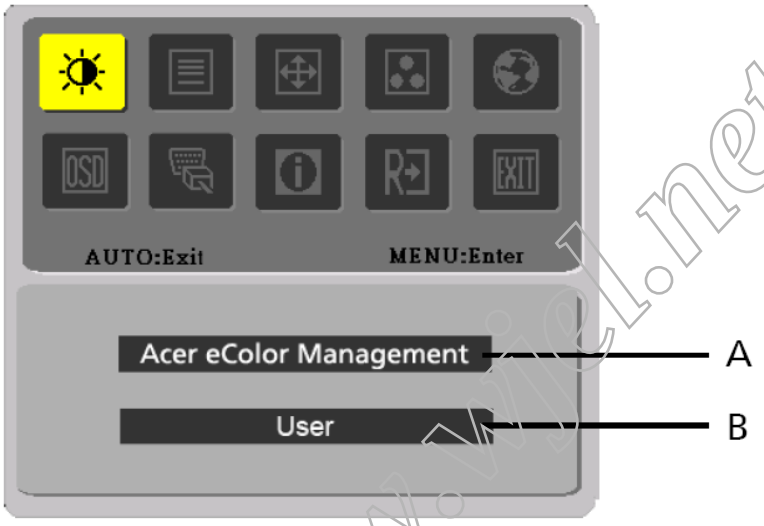
How to Adjust a Setting

1. Press the MENU-button to activate the OSD window.
2. Press < or > to select the desired function.
3. Press the MENU-button to select the function that you want to adjust.
4. Press < or > to change the settings of the current function.
5. To exit and save, select the exit function. If you want to adjust any other function, repeat steps 2-4.

- P/X Series OSD behave
  When user press "MENU" button on front bezel



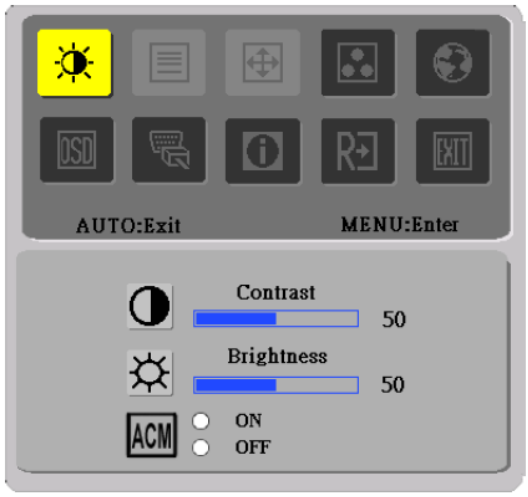
A. Acer eColor Management

If selected to "Acer eColor Management " item, will appear the Acer eColor" OSD

B. USER

If selected to "USER" item, will appear the Standard OSD

I. Only Analog Input Model



II. Only Dual Input Model

http://www.vie1.net

Adjusting the picture

Main menu icon	Sub menu icon	Sub menu item	Description
		Contrast	Adjusts the contrast between the foreground and background of the screen image.
		Brightness	Adjusts the background brightness of the screen image.
		ACM	ACM (Adaptive Contrast Management) ACM On/Off switch, default Off.
		Focus	Adjusts picture focus (available in analog mode only).
		Clock	Adjusts the picture clock (available in analog mode only).
		H. Position	Adjusts the horizontal position (available in analog mode only).
		V. Position	Adjusts the vertical position (available in analog mode only).
	N/A	Warm	Sets the color temperature to warm white.
	N/A	Cool	Sets the color temperature to cool white.
		User/red	Adjusts red intensity.
		User/green	Adjusts green intensity.
		User/blue	Adjusts blue intensity.

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Main menu icon	Sub menu icon	Sub menu item	Description
	N/A	English	Language selection.
	N/A	繁體中文	
	N/A	Deutsch	
	N/A	Français	
	N/A	Español	
	N/A	Italiano	
	N/A	简体中文	
	N/A	日本語	
	N/A	Suomalainen	EMEA version OSD only.
	N/A	Hollands	
	N/A	Русский	
		H. Position	Adjusts the horizontal position of the OSD.
		V. Position	Adjusts the vertical position of the OSD.
		OSD Timeout	Adjusts the OSD timeout.
	N/A	Analog	Selects input signal from analog (D-sub).
	N/A	Digital (only dual-input models)	Selects input signal from digital (DVI) (only dual-input models).
	N/A	DDC/CI	Turns on/off DDC/CI support
	N/A	Information	Shows the resolution, H/V frequency, input port and serial number for current input.
	N/A	Reset	Clears Auto-configuration changes .
	N/A	Exit	Saves user changes and closes the OSD.

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How To Optimize The DOS-Mode

Plug And Play

Plug & Play DDC2B Feature

This monitor is equipped with VESA DDC2B capabilities according to the VESA DDC STANDARD. It allows the monitor to inform the host system of its identity and, depending on the level of DDC used, communicate additional information about its display capabilities.

The DDC2B is a bi-directional data channel based on the I²C protocol. The host can request EDID information over the DDC2B channel.

This monitor will appear to be non-functional if there is no video input signal. In order for this monitor to operate properly, there must be a video input signal.

This monitor meets the Green monitor standards as set by the Video Electronics Standards Association (VESA) and/or the United States Environmental Protection Agency (EPA) and The Swedish Confederation Employees (NUTEK). This feature is designed to conserve electrical energy by reducing power consumption when there is no video-input signal present. When there is no video input signals this monitor, following a time-out period, will automatically switch to an OFF mode. This reduces the monitor's internal power supply consumption. After the video input signal is restored, full power is restored and the display is automatically redrawn. The appearance is similar to a "Screen Saver" feature except the display is completely off. Pressing a key on the keyboard, or clicking the mouse restores the display.

Using the Right Power Cord

The accessory power cord for the Northern American region is the wallet plug with NEMA 5-15 style and is UL listed and CSA labeled. The voltage rating for the power cord shall be 125 volts AC.
Supplied with units intended for connection to power outlet of personal computer: Please use a cord set consisting of a minimum No. 18 AWG, type SJT or SVT three conductors flexible cord. One end terminates with a grounding type attachment plug, rated 10A, 250V, and CEE-22 male configuration. The other end terminates with a molded-on type connector body, rated 10A, 250V, having standard CEE-22 female configuration.
Please note that power supply cord needs to use VDE 0602, 0625, 0821 approval power cord in European counties.

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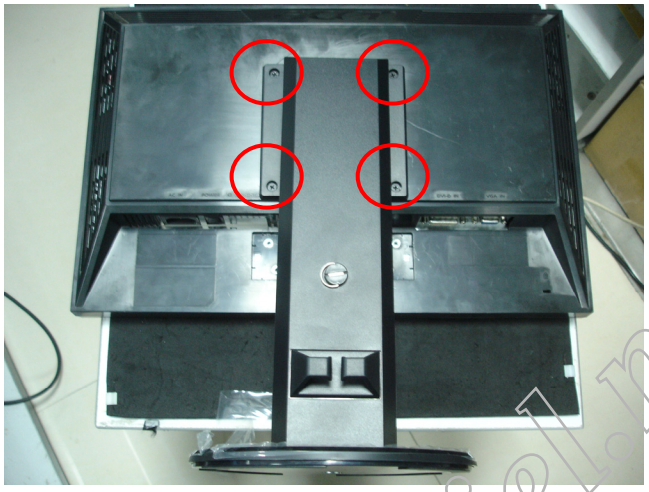
This chapter contains step-by-step procedures on how to disassemble the monitor for maintenance.

Disassembly Procedure

1. Remove the hinge assembly.



2. Remove the back cover and bezel.

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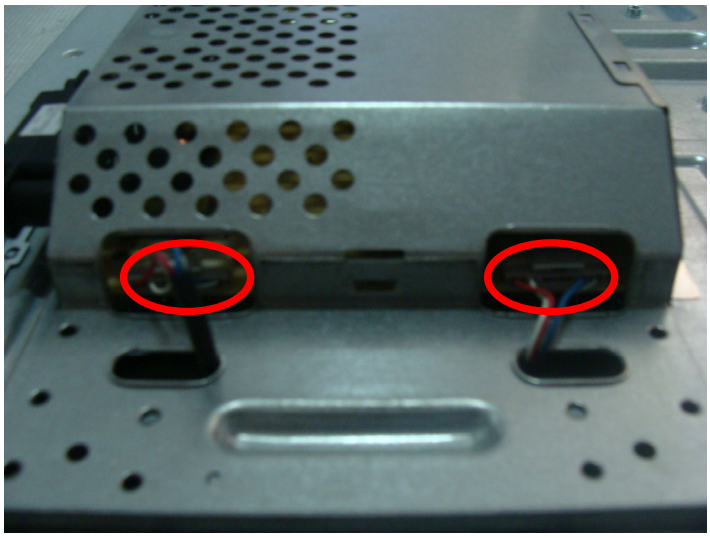
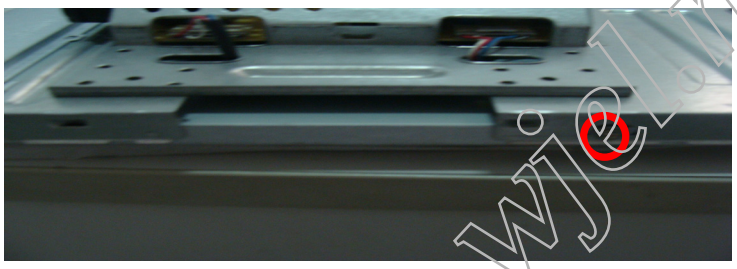
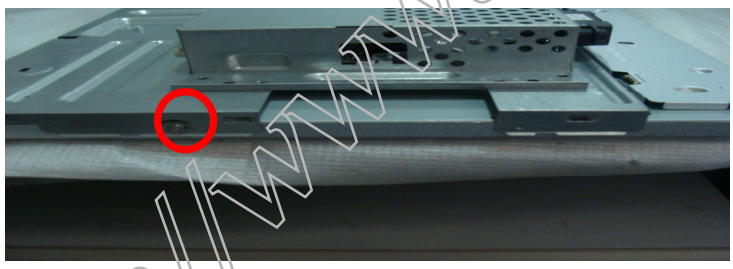
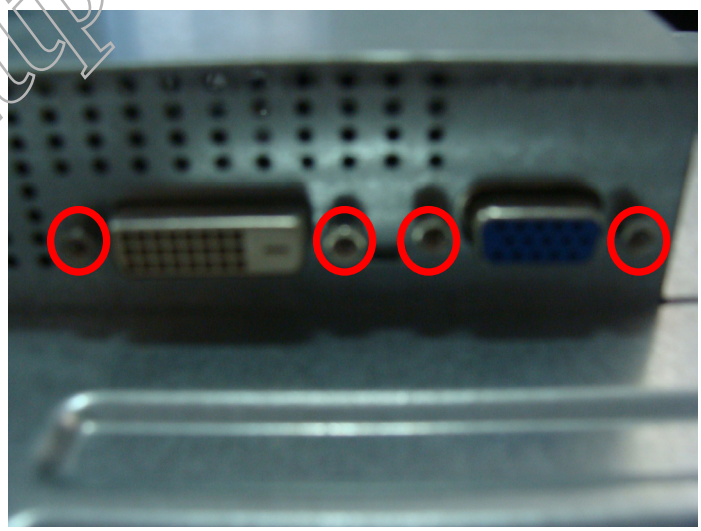
3. Remove the lamp connectors and remove the screws to remove the panel. Put attention to the LVDS cable.







4. Remove the screws to remove the main board and power board.



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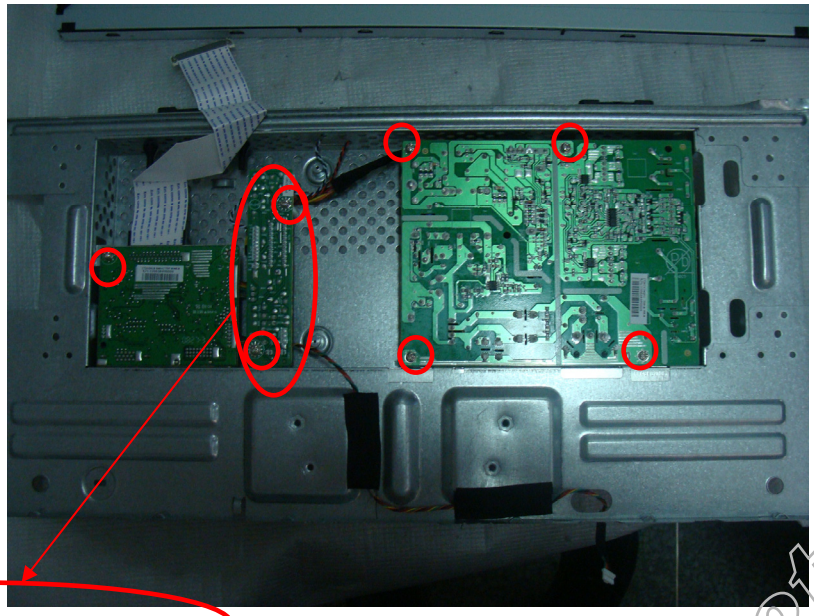

FOR THE V203H+AUDIO MODLE

5. The panel

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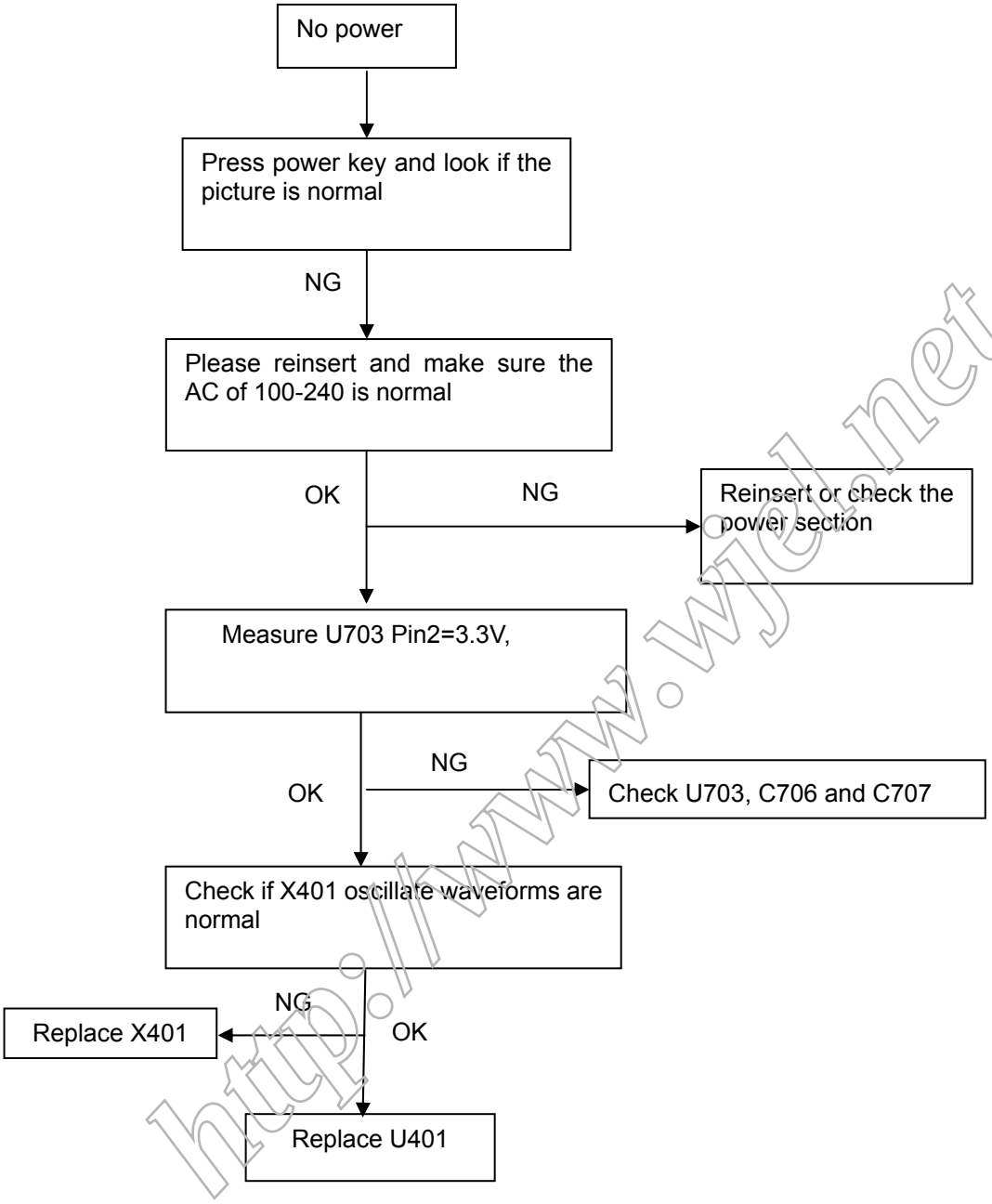
Troubleshooting

This chapter provides troubleshooting information for the B203H:

1. No Power



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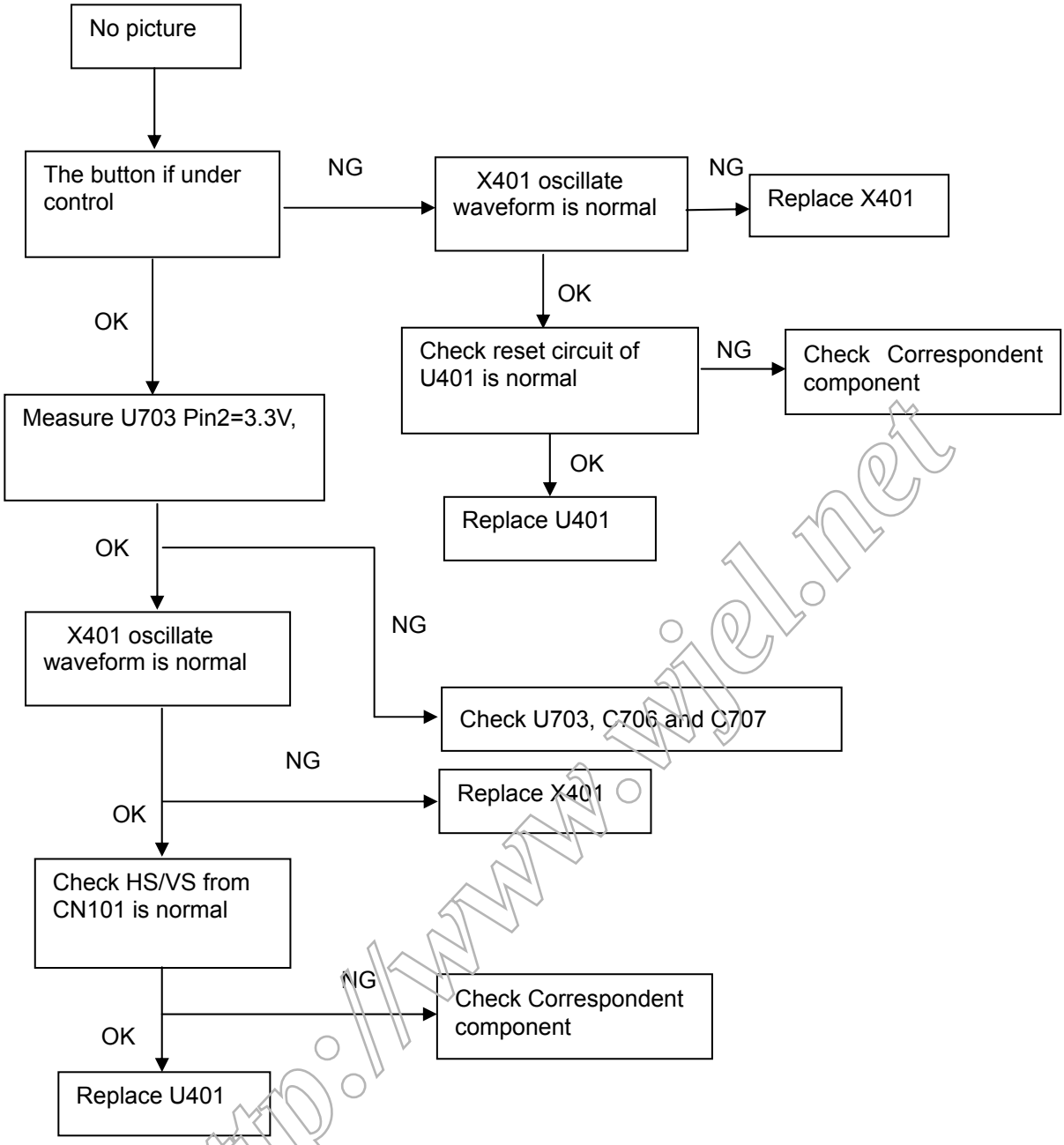
2. No Picture (LED is orange)



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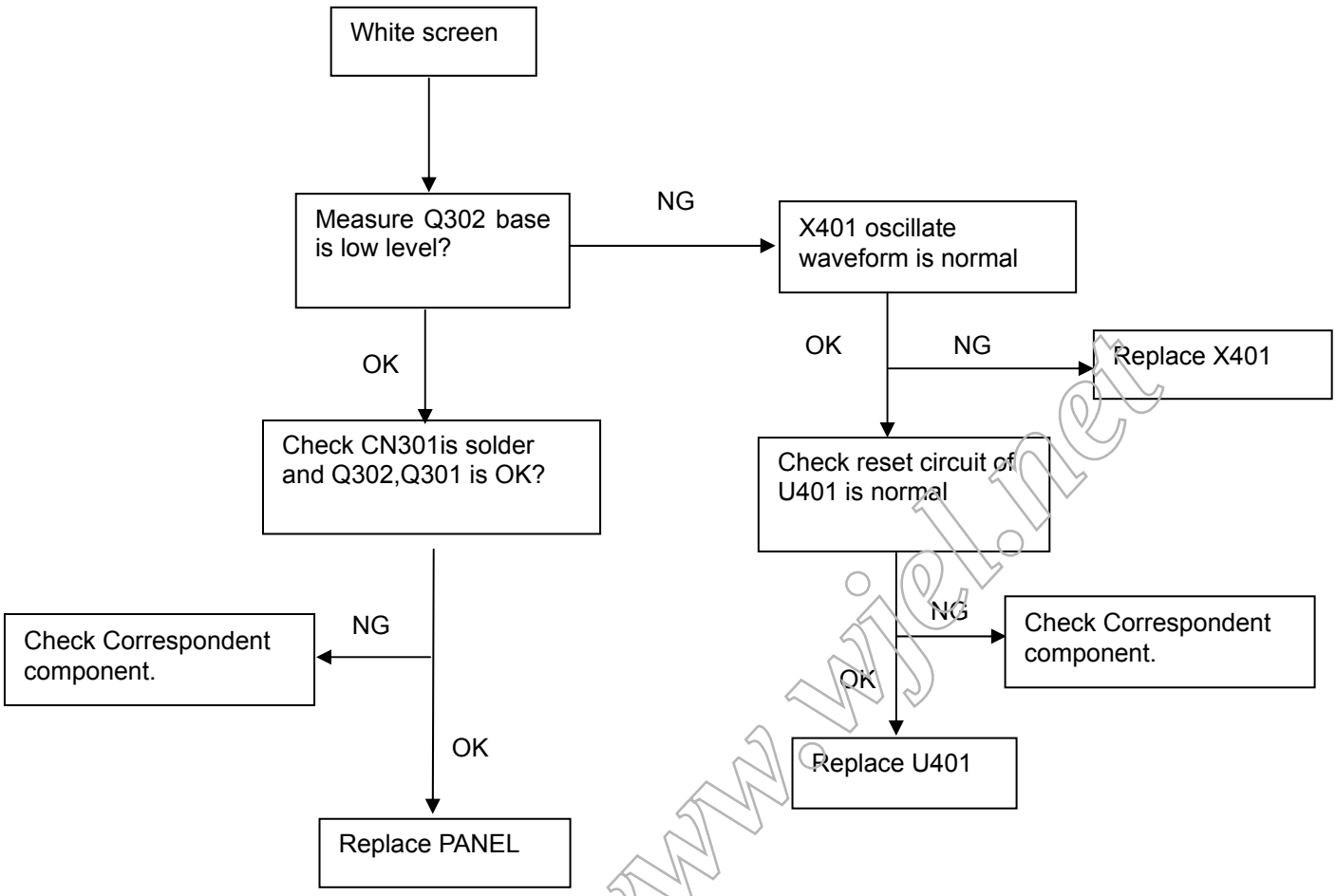
3. Panel Power Circuit



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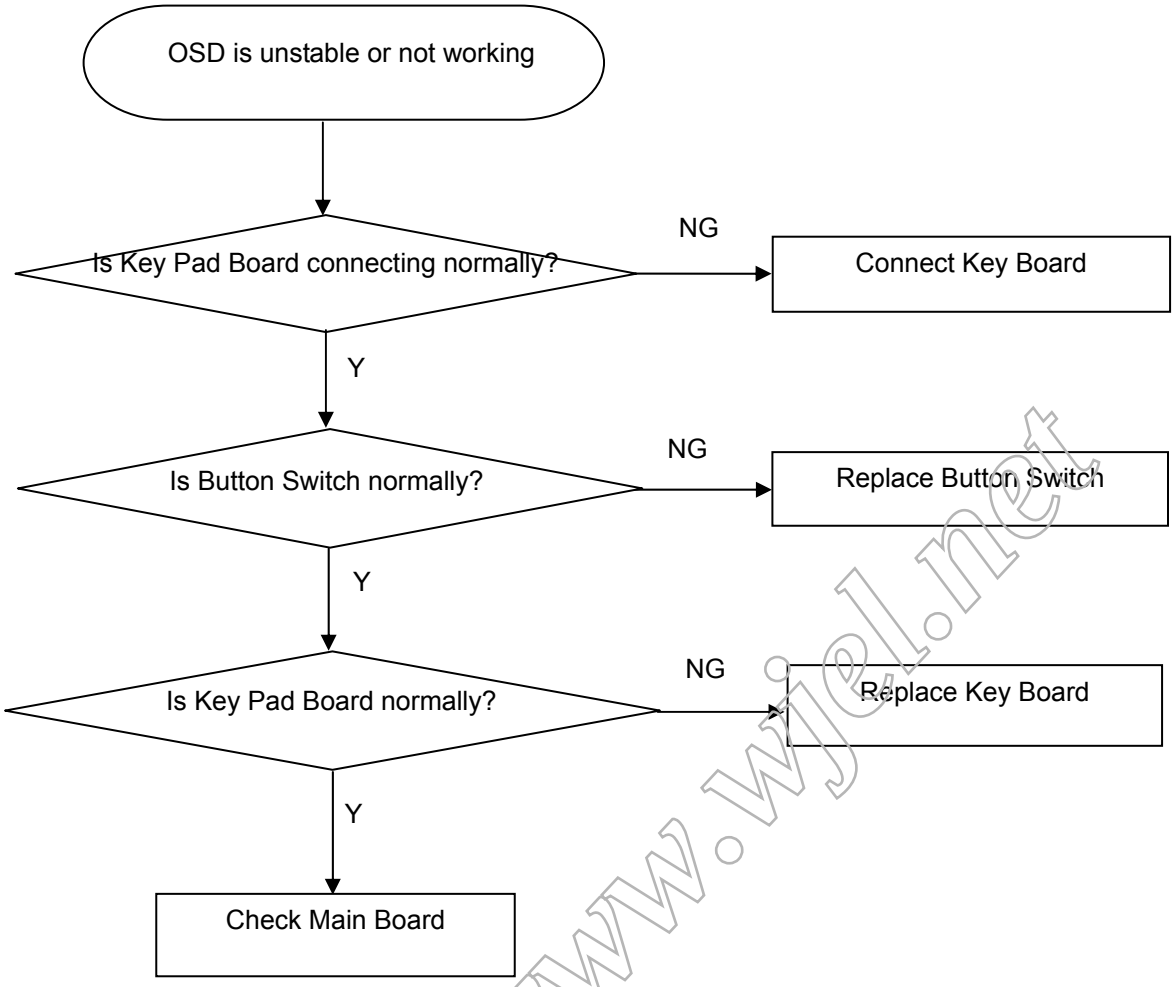
4. Key Board



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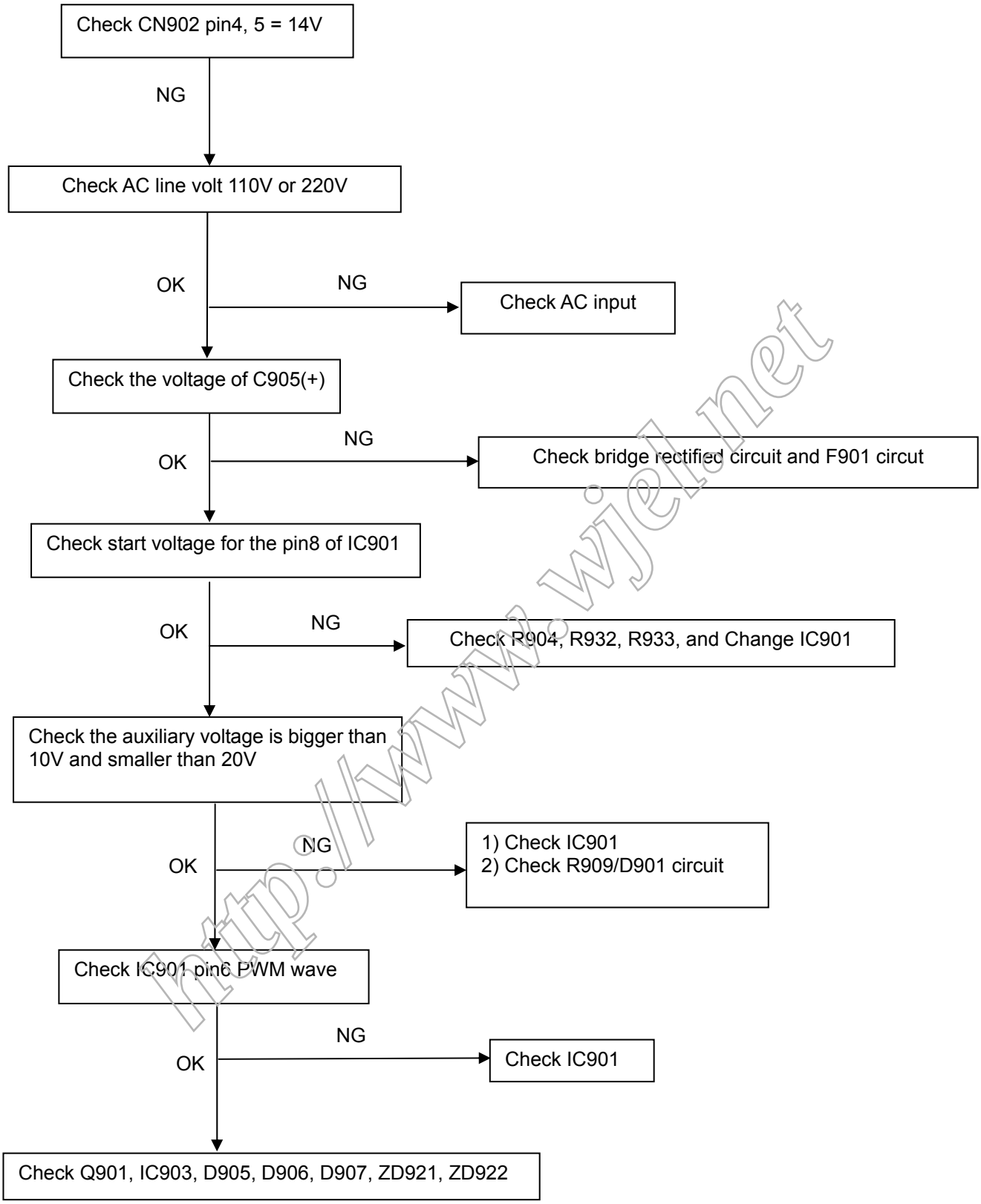
5. Power Board

1) No power



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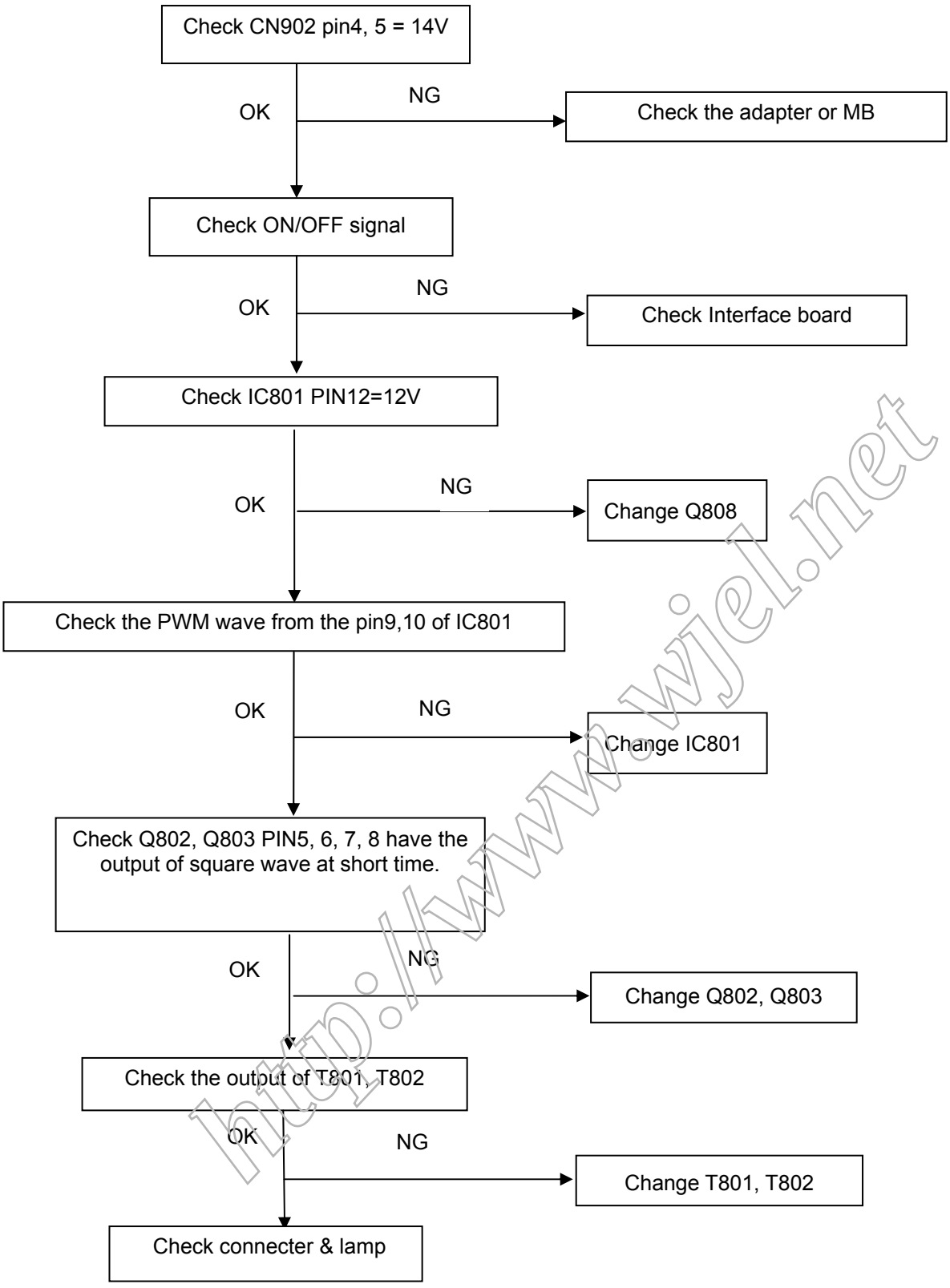
2.) No Backlight



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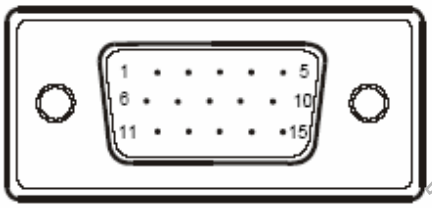
D-SUB CONNECTORS & DVI CONNECTORS

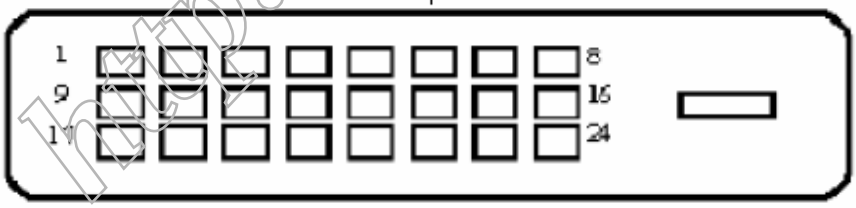
Pin – Assignment of 15-pin D-sub:

1	Red Video	9	+5 v
2	Green Video	10	Logic Ground
3	Blue Video	11	RS232
4	RS232	12	DDC-Serial Data
5	DDC-Return	13	H-Sync.
6	Red Ground	14	V-Sync.
7	Green Ground	15	DDC-Serial Clock
8	Blue Ground		



Pin – Assignment of 24-pin DVI-D:

1	TMDS data 2-	13	TMDS data 3+
2	TMDS data 2+	14	+5V Power
3	TMDS data 2/4 Shield	15	GND (return for +5V, H-sync, V-sync)
4	TMDS data 4-	16	Hot Plug Detect
5	TMDS data 4+	17	TMDS data 0 -
6	DDC Clock	18	TMDS data 0 +
7	DDC Data	19	TMDS data 0/5 Shield
8	Analog Vertical Sync	20	TMDS data 5-
9	TMDS data 1-	21	TMDS data 5 +
10	TMDS data 1+	22	TMDS Clock Shield
11	TMDS data 1/3 Shield	23	TMDS Clock +
12	TMDS data 3-	24	TMDS Clock -



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FRU (Field Replaceable Unit) List

Chapter 6

This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of B203H. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

NOTE: Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel (http://aicsl.acer.com.tw/spl/). For whatever reasons a part number change is made, it will not be noted in the printed Service Guide. For ACER AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code from those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

NOTE: To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how to dispose it properly, or follow the rules set by your regional Acer office on how to return it.

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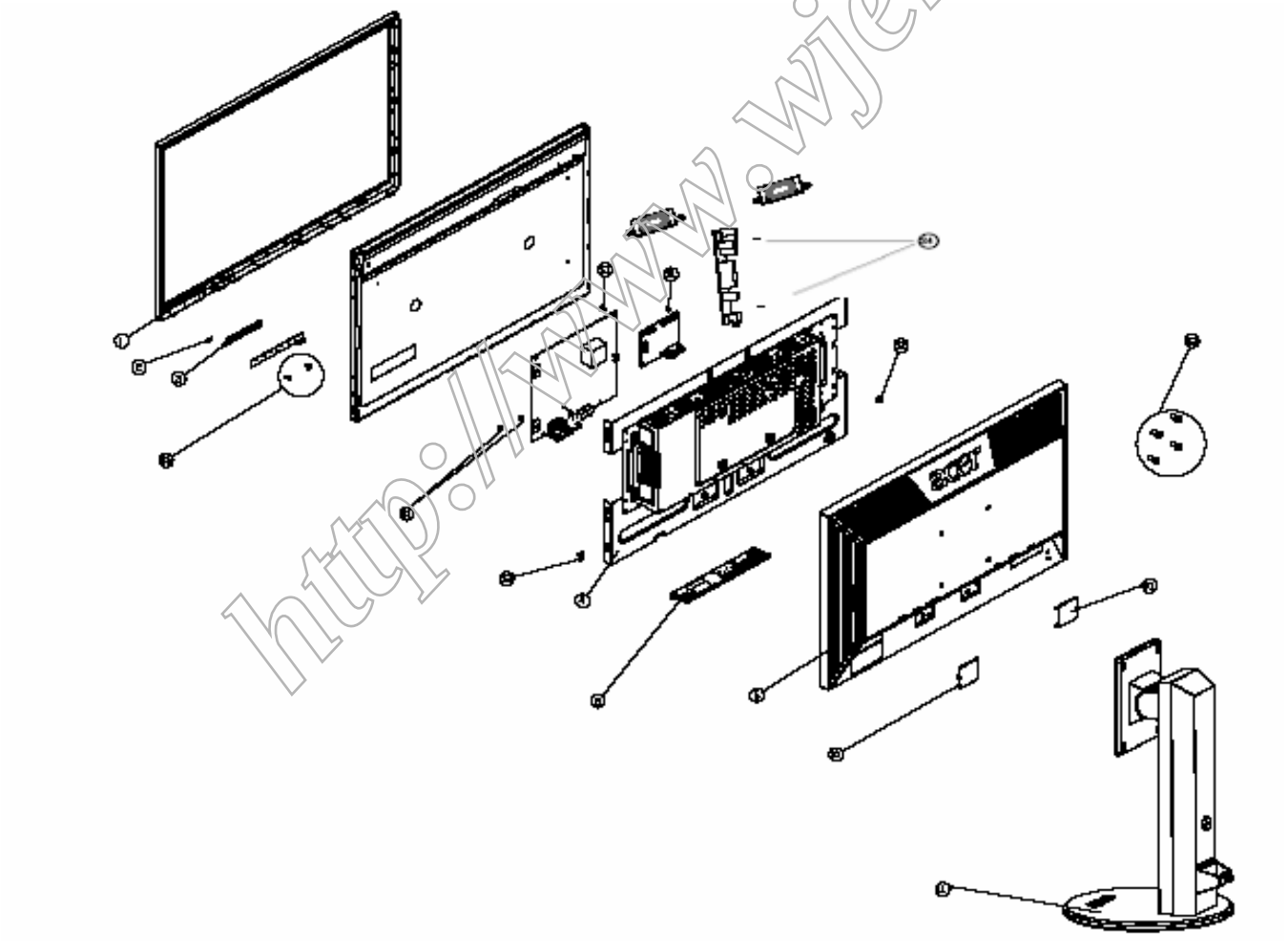
Exploded Diagram (Model: B203H)

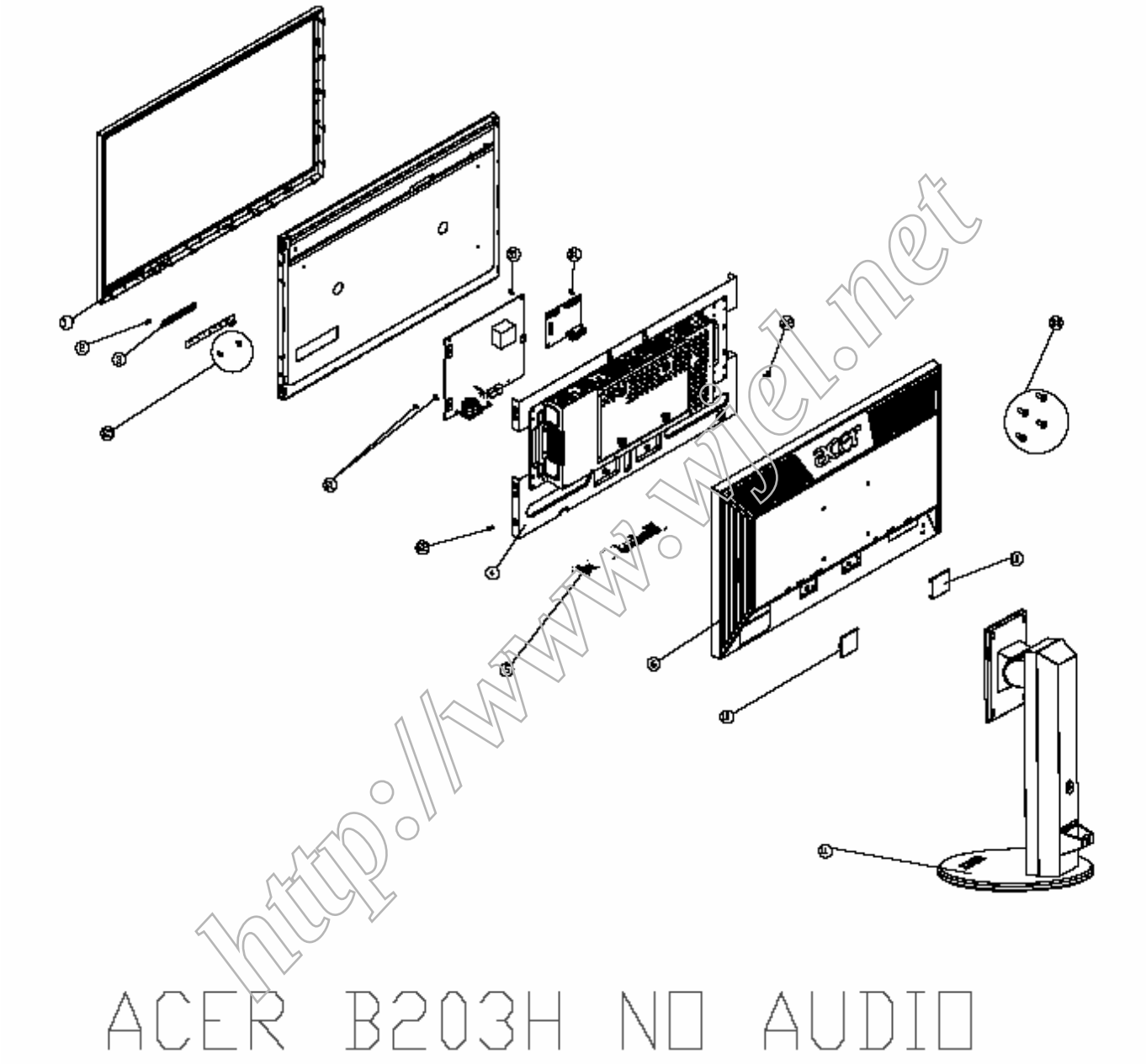
B203H+AUDIO：



ACER B203H AUDIO

1	BEZEL L201WA-8ACER1-P1	11	HINGE ASSEMBLY
2	POWER LENS	S1	SCREW,42-D020523
3	KEY BUTTON	S2	SCREW
4	MAINFRAME	S3	SCREW
5	SHIELD	S4	SCREW,42-D020523
6	REAR COVER B203H DVI	S5	SCREW
10	COVER HINGE		

B203H：



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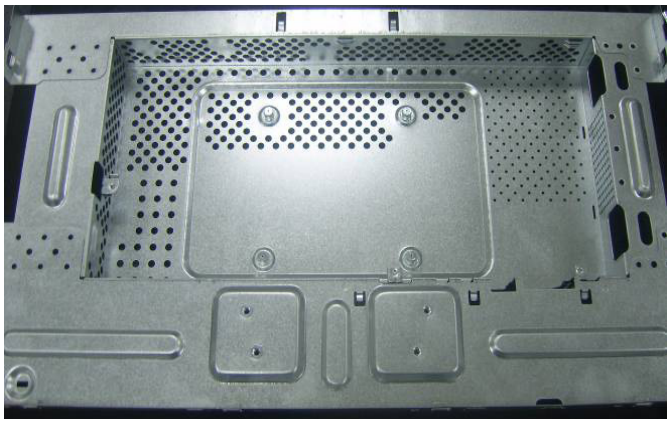
ACER B203H NO AUDIO

1	BEZEL L201WA-8ACER1-P1	10	COVER HINGE
2	POWER LENS	11	HINGE ASSEMBLY
3	KEY BUTTON	S1	SCREW,42-D020523
4	MAINFRAME	S2	SCREW
5	SHIELD	S3	SCREW
6	REAR COVER B203H DVI	S5	SCREW

Part List

Above picture show the description of the following component.

Item	Picture	Description
1		Main Frame
2		Bezel
3		Panel

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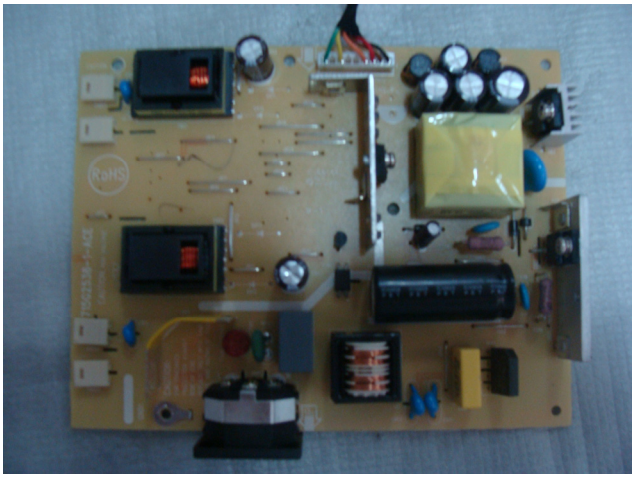
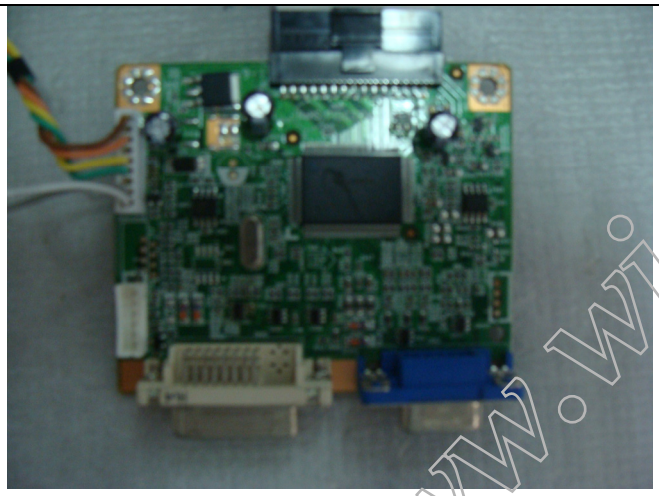
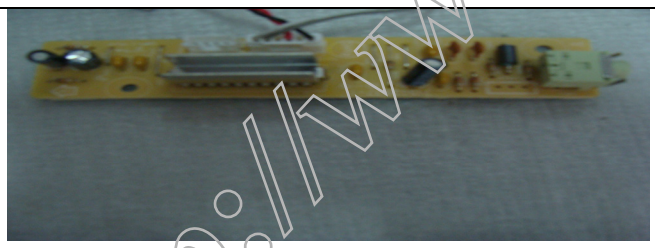
4		Power Board
5		Main Board
6		Audio Board（B203H+AUDIO）

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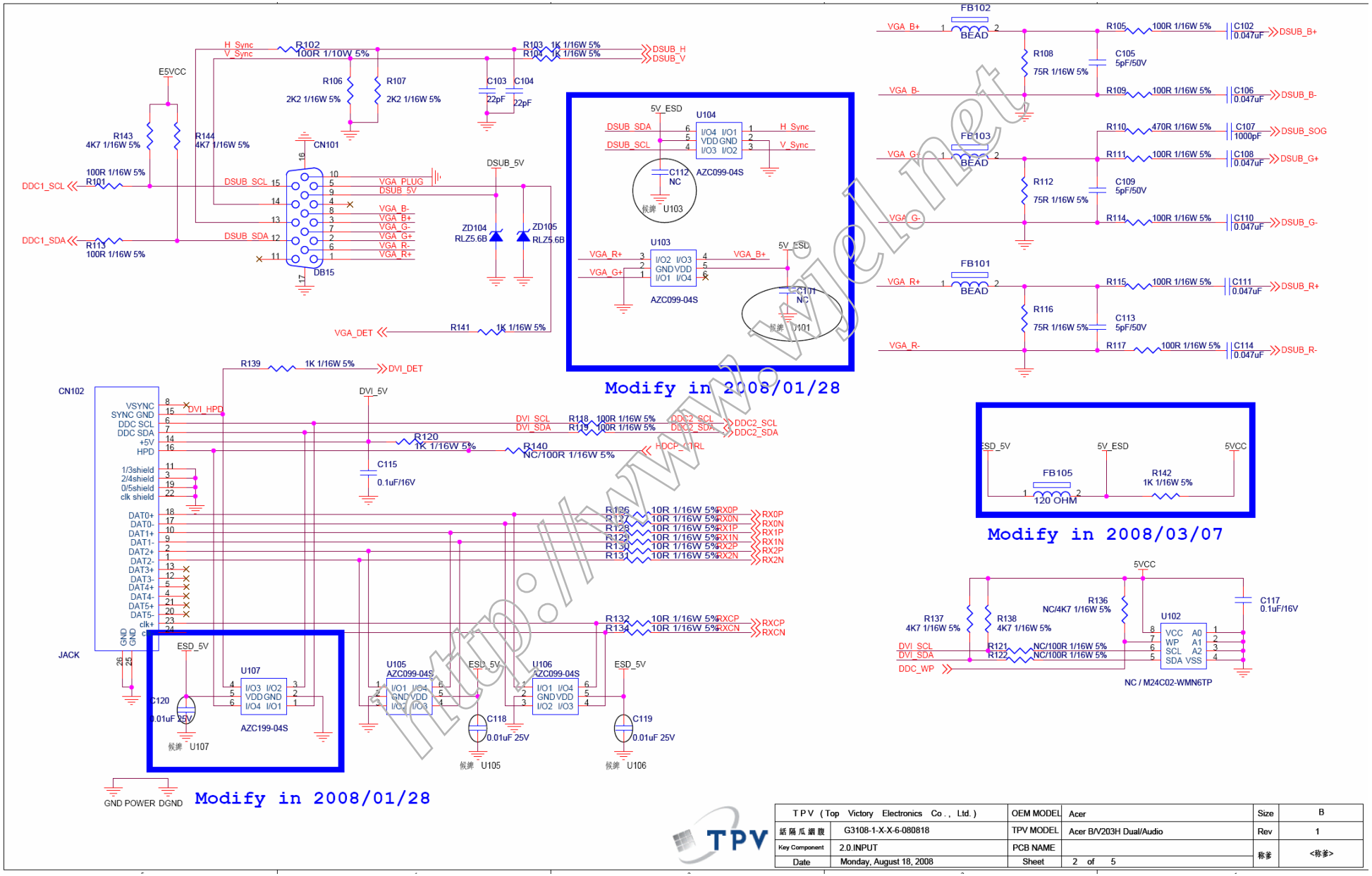
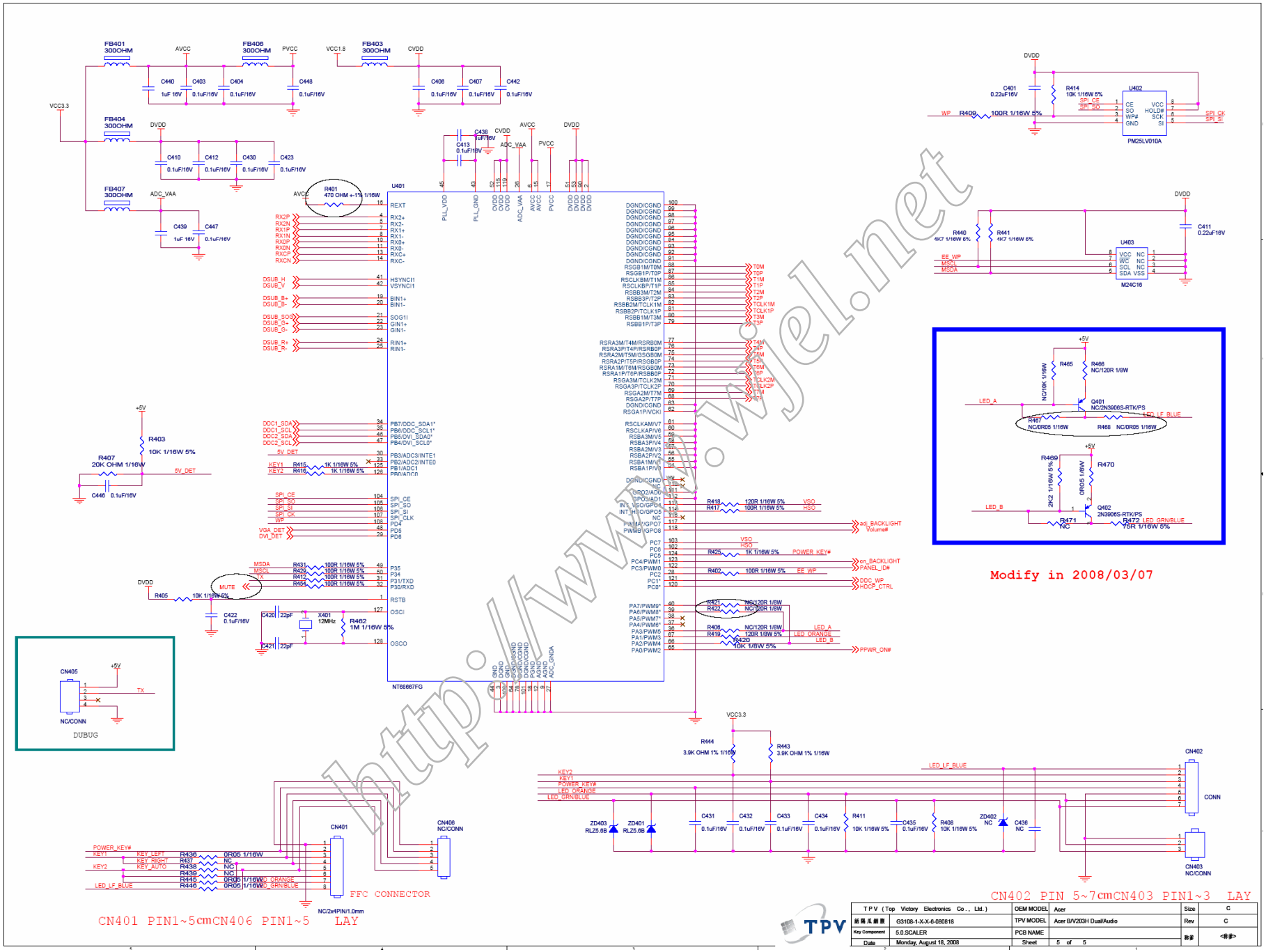
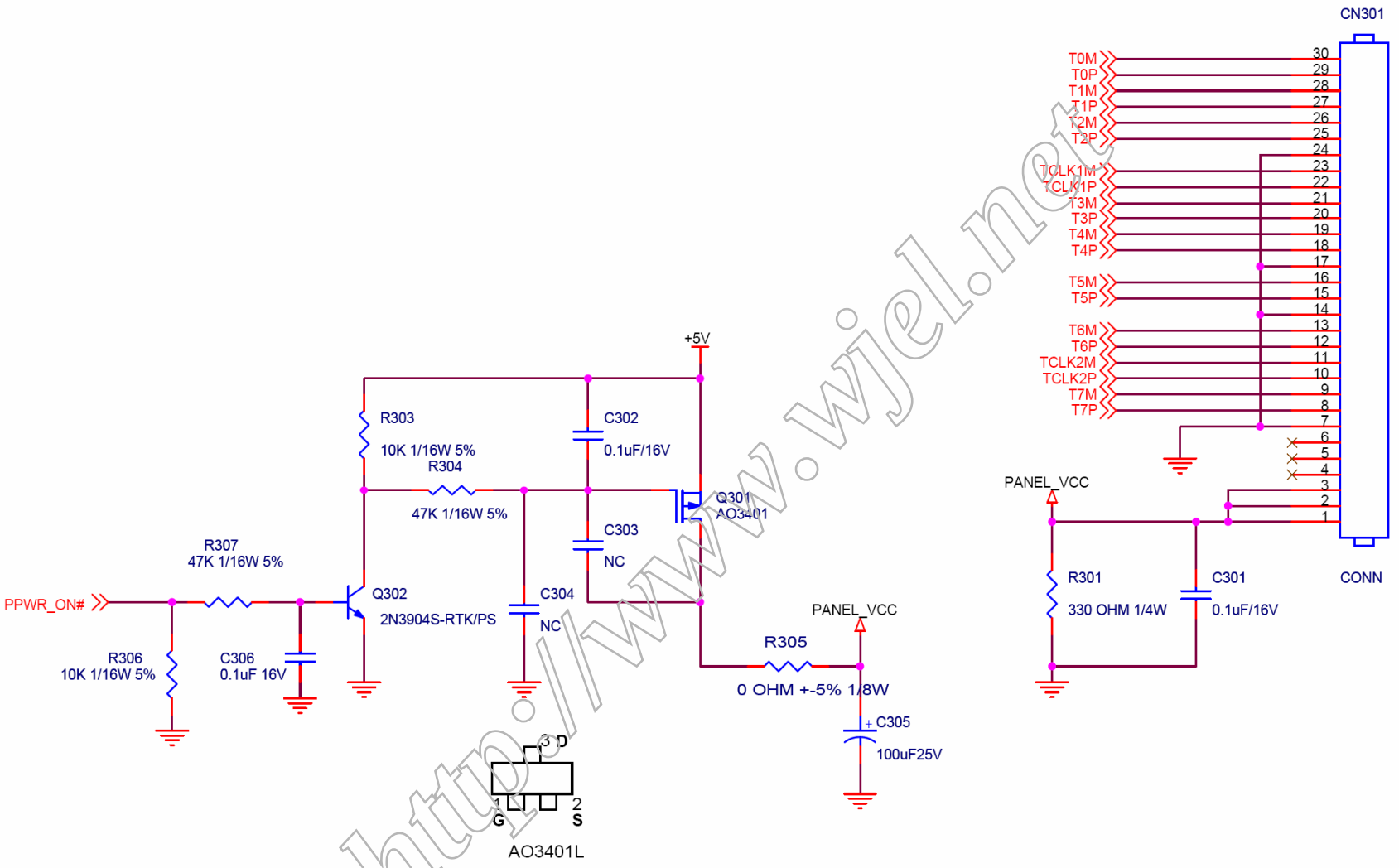
Main Board


Modify in 2008/01/28
Modify in 2008/03/07
Modify in 2008/01/28
http://www.wel.net
TPV
TPV (Top Victory Electronics Co., Ltd.)
OEM MODEL Acer
Size B
G3108-1-X-X-6-080818
TPV MODEL Acer B/V203H Dual/Audio
Rev 1
2.0.INPUT
PCB NAME
Monday, August 18, 2008
Sheet 2 of 5



T P V (Top Victory Electronics Co., Ltd.)		OEM MODEL	Acer	Size	C
版面代碼	G310B-1-X-X-6-080818	TPV MODEL	Acer B/V203H Dual/Audio	Rev	C
Key Component	5.0.SCALER	PCB NAME		張數	<張數>
Date	Monday, August 18, 2008	Sheet	5 of 5		



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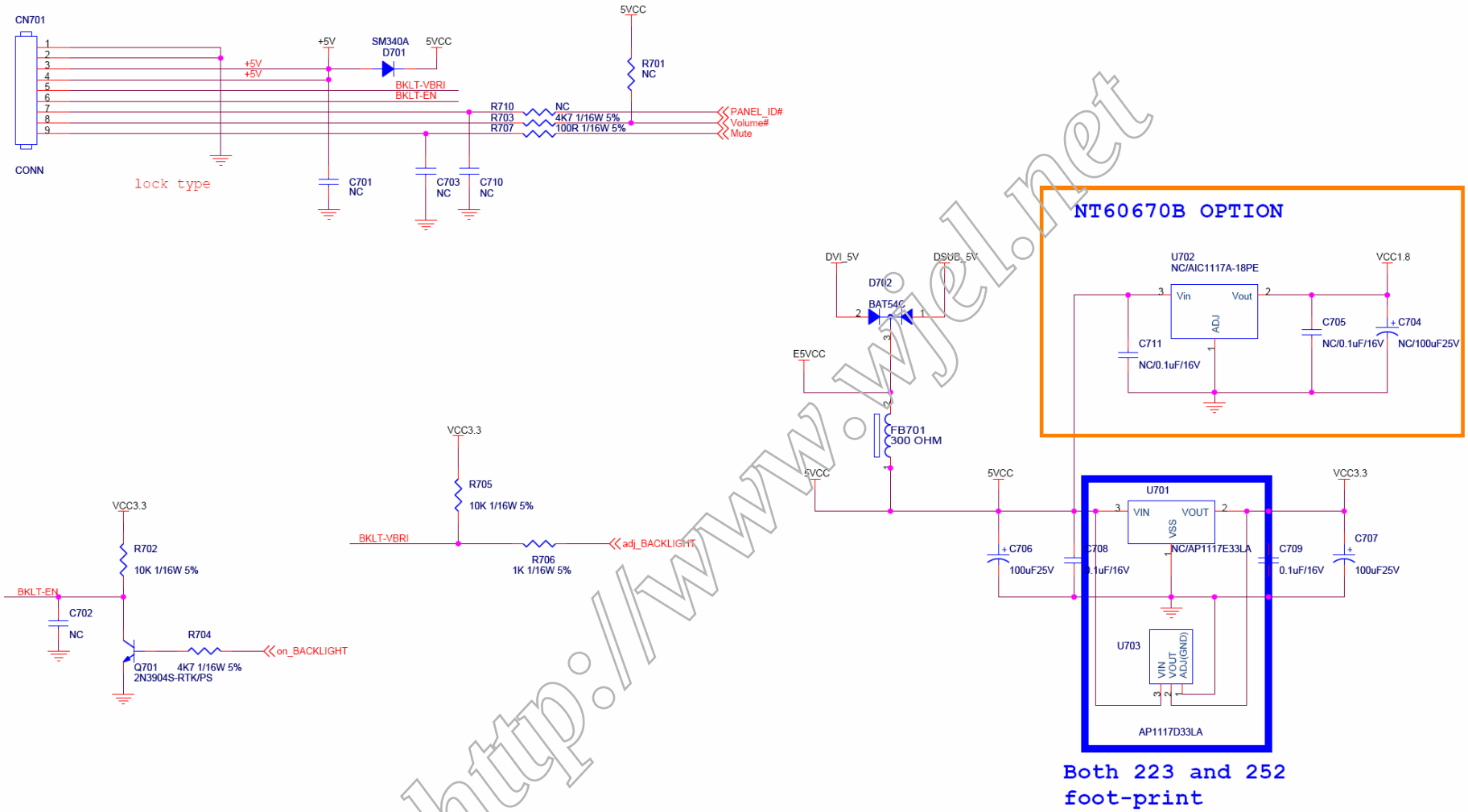
T P V （Top Victory Electronics Co., Ltd.）		OEM MODEL	Acer	Size	A
結構代號	G3108-1-X-X-6-080818	TPV MODEL	Acer B/V203H Dual/Audio	Rev	1
Key Component	3.0.OUTPUT	PCB NAME		称爹	<称爹>
Date	Monday, August 18, 2008	Sheet	3 of 5		



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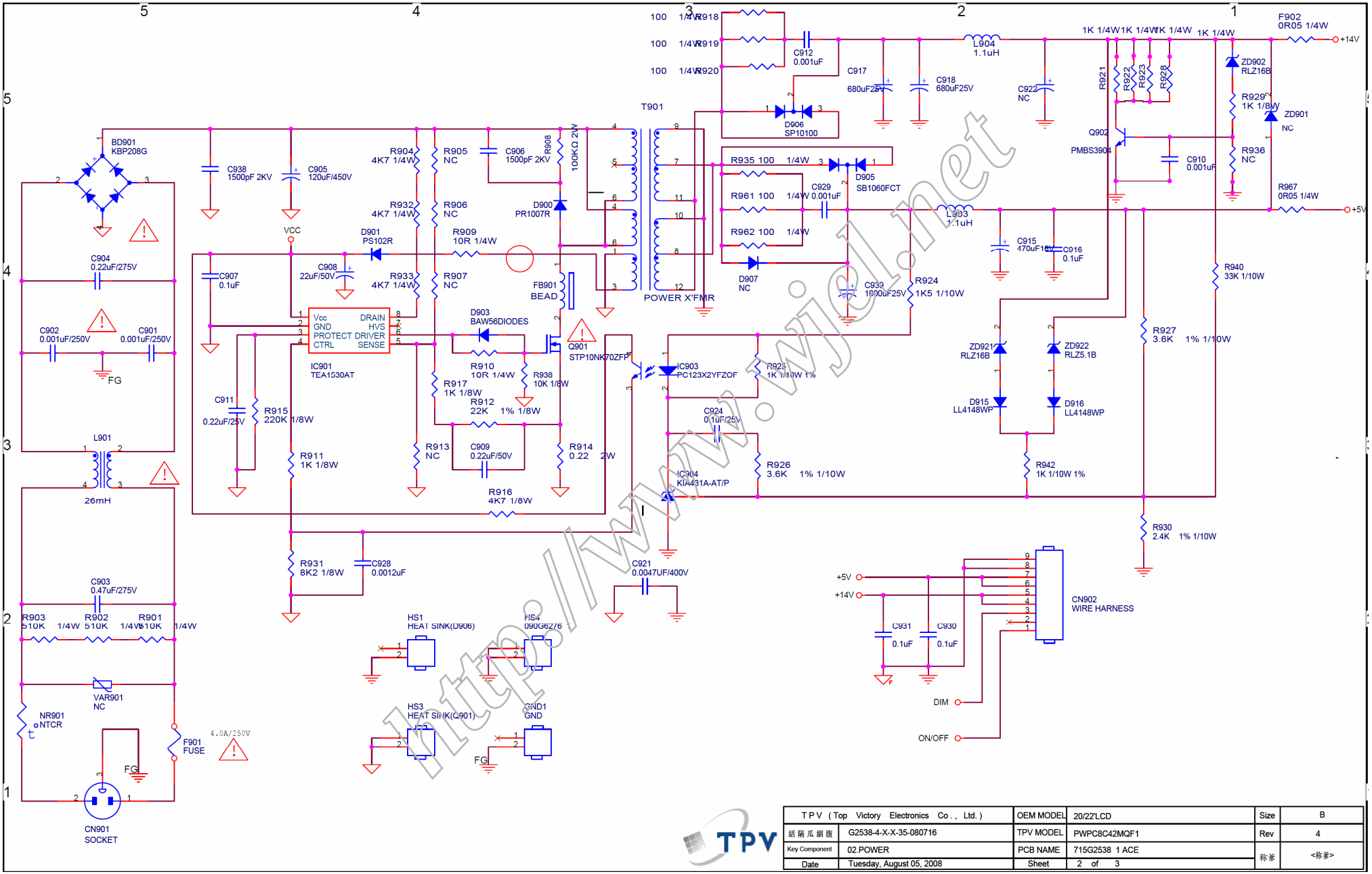
TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	Acer	Size	B
話隔瓜網膜	G3108-1-X-X-6-080818	TPV MODEL	Acer B/V203H Dual/Audio	Rev	1
Key Component	4.0.POWER	PCB NAME		称爹	<称爹>
Date	Monday, August 18, 2008	Sheet	4 of 5		

Power board



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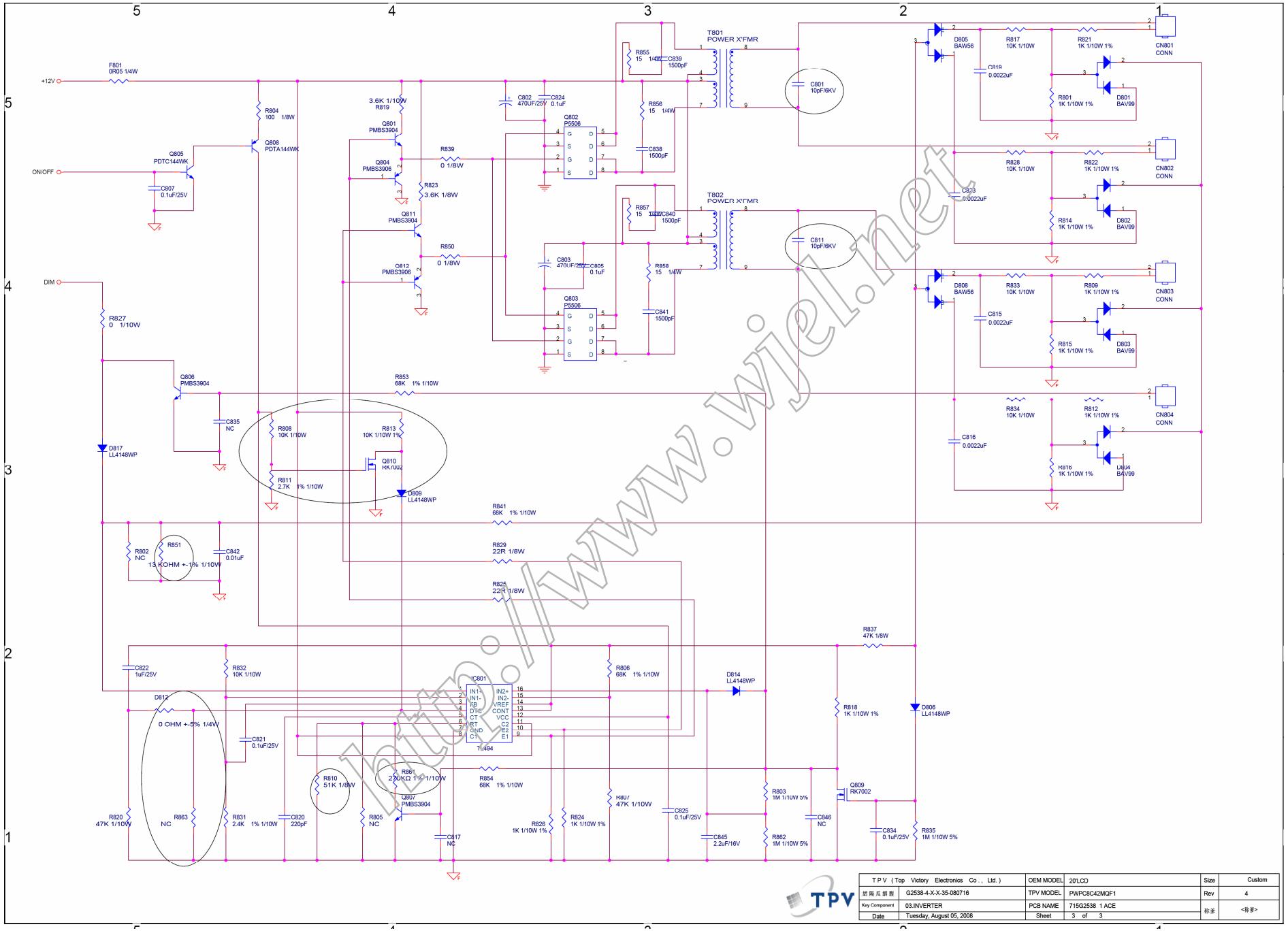
TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	20/22'LCD	Size	B
結屬瓜網腹	G2538-4-X-X-35-080716	TPV MODEL	PWPC8C42MQF1	Rev	4
Key Component	02.POWER	PCB NAME	715G2538 1 ACE	称爹	<称爹>
Date	Tuesday, August 05, 2008	Sheet	2 of 3		



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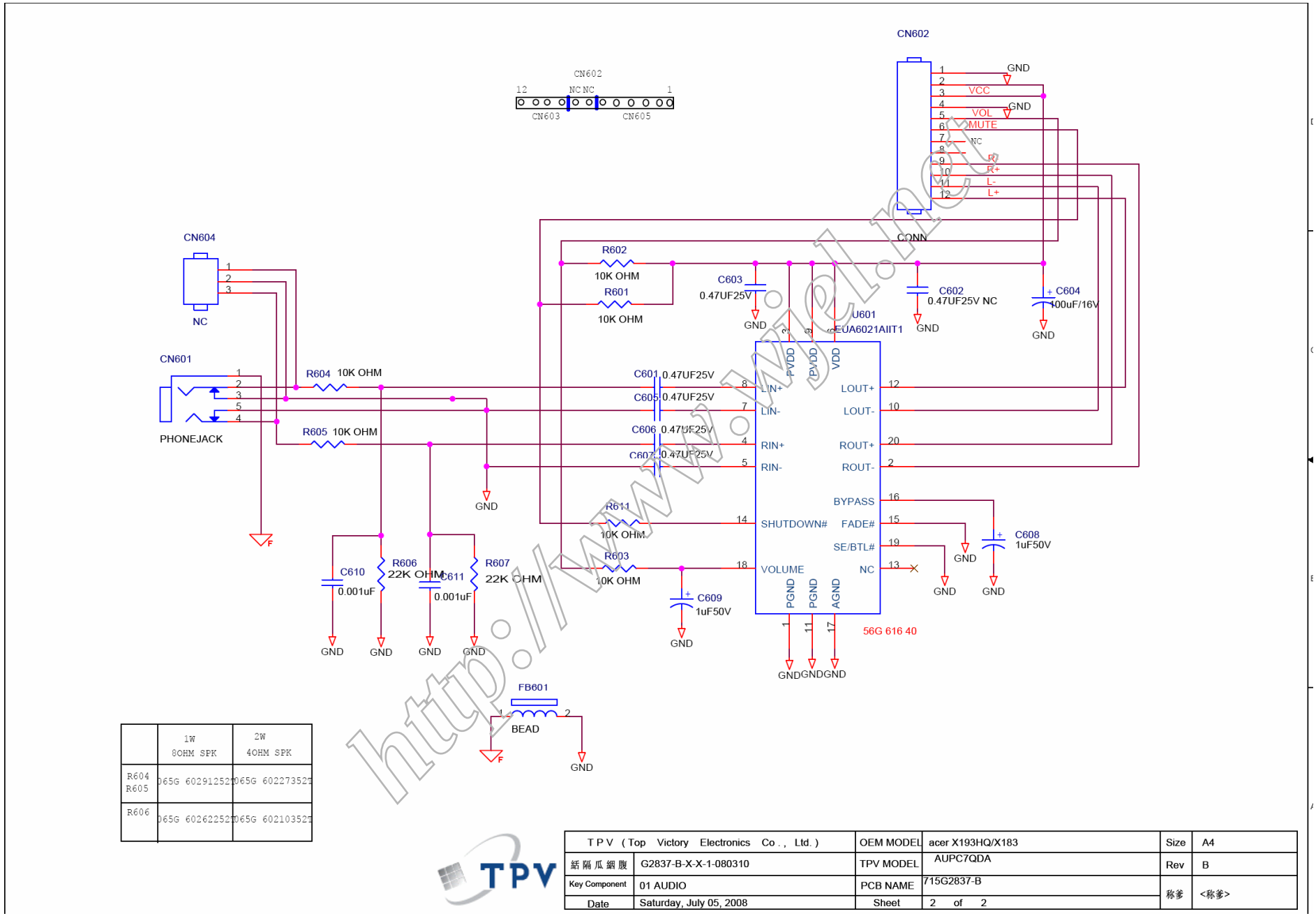
T P V (Top Victory Electronics Co., Ltd.)		OEM MODEL	20'LCD	Size	Custom
話筒瓜鋼殿	G2538-4-X-X-35-080716	TPV MODEL	PWPC8C42MQF1	Rev	4
Key Component	03.INVERTER	PCB NAME	715G2538 1 ACE	称峯	<称峯>
Date	Tuesday, August 05, 2008	Sheet	3 of 3		

Audio board (for B203H+AUDIO)



	1W 8OHM SPK	2W 4OHM SPK
R604 R605	065G 602912527	065G 602273527
R606	065G 602622527	065G 602103527

TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	acer X193HQ/X183	Size	A4
結隔瓜網腹	G2837-B-X-X-1-080310	TPV MODEL	AUPC7QDA	Rev	B
Key Component	01 AUDIO	PCB NAME	715G2837-B	称爹	<称爹>
Date	Saturday, July 05, 2008	Sheet	2 of 2		

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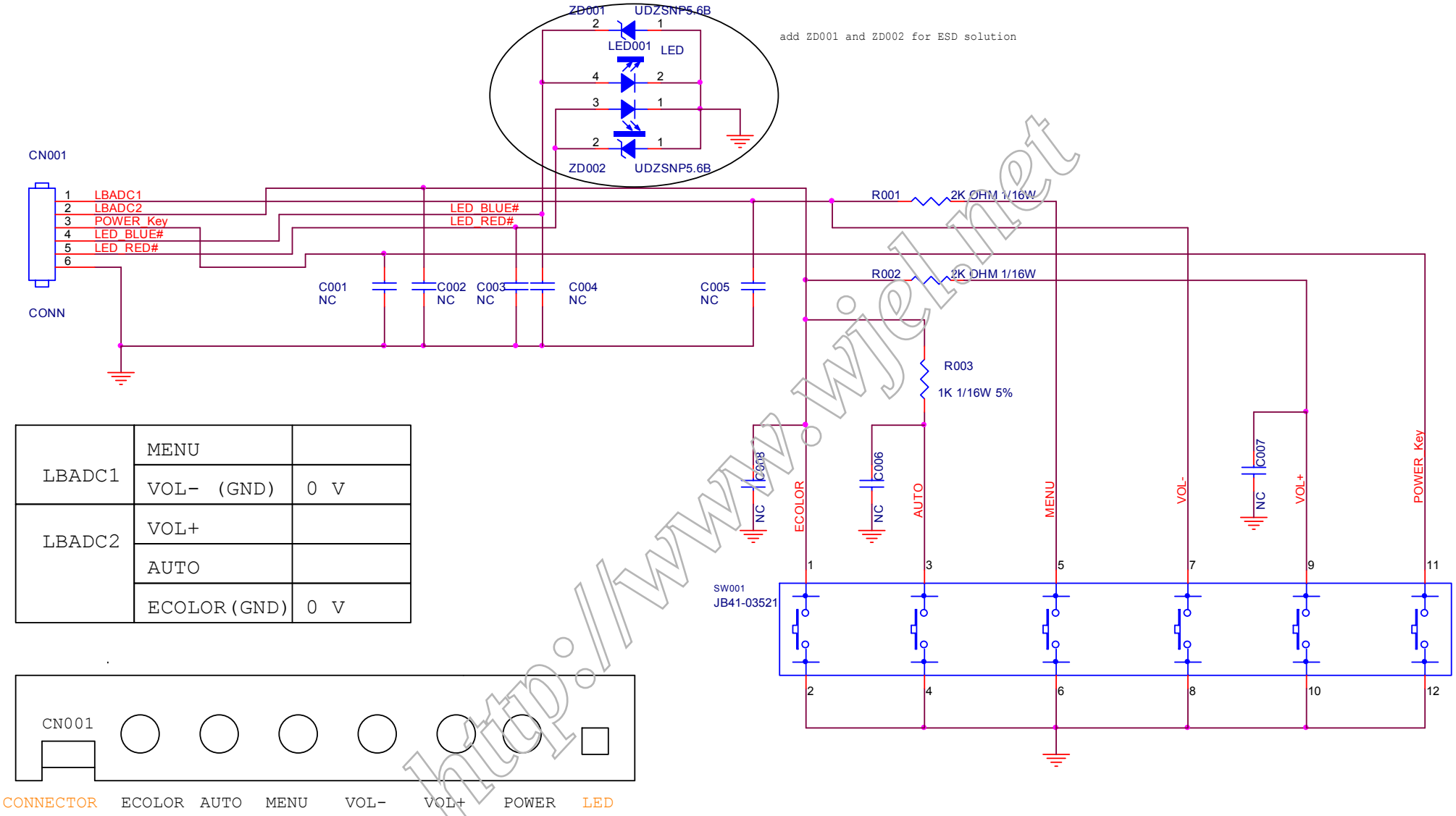
Key board



LBADC1	MENU	
	VOL- (GND)	0 V
LBADC2	VOL+	
	AUTO	
	ECOLOR(GND)	0 V

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